

**PRODUCT
CATALOGUE**



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Chip Inductors for RF Applications / Medical Applications (Wire wound-open)

FASTRON's wire wound chip inductors are designed for radio frequency (RF) applications that require optimal Q on high frequency circuits. Its gold flash pad metallization provides better solderability for a higher yield in production. Additionally, their encapsulation not only protects the winding but also allows for surface mount assembly. It comes in compact sizes (from 0402 to 1812) and is available in reel packaging. Unlisted inductance values are usually available upon request. Ferrite core versions are also available for selected case sizes for applications which require higher inductances in a smaller case size.

Applications

Used in LC resonant circuits such as oscillator and signal generators, impedance matching, RF filters etc.
Mobile Telecommunication: GSM, CDMA, TCDMA, cordless phones, 2 way radio
Automotive Subsystems: TPMS, Keyless Entry, Anti-Theft, GPS
Wireless Communication: W-LAN, WIFI, WIMAX, RFID, Bluetooth
Non-magnetic versions for medical imaging applications: ASM series

Technical Data

L – Value (Rated Inductance)	≥ 1 MHz measured with HP 4286A RF LCR meter or equivalent at frequency f_L , 25°C ambient < 1 MHz measured with HP 4285A or equivalent at frequency f_L , 25°C ambient
Q – Factor (min)	≥ 1 MHz measured with E4991B Impedance Analyzer or equivalent at frequency f_Q , 25°C ambient < 1 MHz measured with HP 4285A or equivalent at frequency f_Q , 25°C ambient
SRF (min)	Measured with HP8753ES Network Analyzer or equivalent at 25°C ambient
DCR (max)	Measured at 25°C ambient
Rated DC Current: Irms	Max permissible current that causes a 15°C component temperature rise from 25°C ambient for AS, AQ, ASM & F Max permissible current that causes a 40°C component temperature rise from 25°C ambient for AQC, FLP & LDM
Saturation Current: Isat	Max permissible DC bias at 25°C ambient that causes inductivity drop 30% (typ.) related to the unloaded inductivity for FLP & LDM.
Operating Temperature	-40°C to +100°C (Including component self-heating): F -40°C to +125°C (Including component self-heating): FLP & LDM -40°C to +140°C (Including component self-heating): AS, AQ, ASM & AQC
Surface Finishing	Epoxy molded flat top for perfect pick and place assembly
Pad Metallization	Gold flash as top layer for AS, AQ, F, AF & FLP Silver-Palladium-Platinum for ASM & AQC Tin as top layer for LDM
Wire Termination	Spot welding
Recommended Soldering Method	Reflow
Moisture Sensitivity Levels (MSL)	MSL Level 1, indicating unlimited floor life at ≤ 30°C / 85% relative humidity
Solderability	Using lead-free solder (Sn 99.9) at 260°C ± 5°C for 5 ± 0.5 seconds, min 90% solder coverage of metallization Standard: IEC 68-2-20 (Ta)
Resistance to Soldering Heat	Resistant to 260°C ± 5°C for 10 ± 1 seconds Standard: IEC 68-2-20 (Tb)
Resistance to Solvent	Resistant to isopropyl alcohol for 5 ± 0.5 minutes at 23°C ± 5°C Standard: IEC 68-2-45
Climatic Test	Defined by the following standards: IEC 68-2-1 for Cold test: -55°C for 96 hours IEC 68-2-2 for Dry heat test: +85°C for ferrite core and 125°C for ceramic core for 96 hours IEC 60068-2-78 for Humidity test: 40°C at RH 95% for 4 days
Thermal Shock Test	Temperature cycle (ceramic): -40°C to +125°C to -40°C Temperature cycle (ferrite): -40°C to +85°C to -40°C Max/Min temperature duration: 15 minutes Temperature transition duration: 5 minutes Cycles: 25 Standard: MIL-STD-202G
Adhesion of Soldered Component (Shear Test)	Components withstand a pushing force of 10N for 10 ± 1 seconds Standard: IEC 60068-2-21, method Ue ₃
Mechanical Shock	Mil-Std 202 Method 213, Condition C 3 axis, 6 times, total 18 shocks 100 G, 6 ms, half-sine
Vibration	Mil-Std 202 Method 204 20 mins at 5G 10 Hz to 2000 Hz 12 cycles each of 3 orientations

Chip Inductors for RF Applications / Medical Applications (Wire wound-open)

Ordering Code Example : 0402AS-1N0X-YY ➔ 0402AS-1N0K-01

0402 AS - 1N0 X - YY
(Case Size) (Core Type) (Inductance Value) (Tolerance) (Packaging Code)

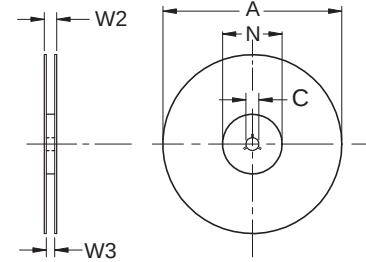
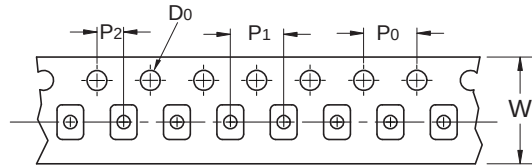
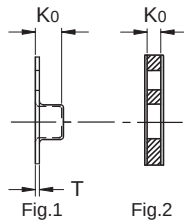
Case Sizes - 0402, 0603, 0805, 1008, 1206, 1210, 1812

Core Type - Ceramic: AS, AQ, AQC & ASM, Ferrite: F & LDM, Ceramic & Ferrite: AF, Ferrite Low Profile: FLP

Tolerances - F ($\pm 1\%$), G ($\pm 2\%$), A ($\pm 3\%$), J ($\pm 5\%$), K ($\pm 10\%$), L ($\pm 15\%$), M ($\pm 20\%$)

Packaging Code - 01, 04, 08 (Taped / Reel)

Packaging
Specification
Schematic



Type	Packaging Code	A	D0	N	C	W2	W3	W	P1	P0	P2	K0	T	Fig
0402	01, 08	180	1.55	60	13	11.9	9.5	8	2	4	2	0.60	-	2
0603	01, 08	180	1.55	60	13	11.4	9.0	8	4	4	2	0.98, 0.87*, 1.05 [#]	0.22 [#]	1 [#] , 2
0603	04	330	1.55	100	13	14.4	8.4	8	4	4	2	0.98, 0.87*	-	2
0805	01, 08	180	1.55	60	13	11.4	9.0	8	4	4	2	1.63	0.25	1
0805	04	330	1.55	100	13	14.4	8.4	8	4	4	2	1.63	0.25	1
1008	01, 08	180	1.50	60	13	11.4	9.5	8	4	4	2	2.23	0.30	1
1008	04	330	1.55	100	13	14.4	8.4	8	4	4	2	1.63	0.25	1
1206	01, 08	180	1.50	60	13	18.4	13.7	12	4	4	2	1.80	0.30	1
1206	04	330	1.50	100	13	18.4	12.4	12	4	4	2	1.80	0.30	1
1210	01	180	1.55	60	13	18.4	13.7	12	8	4	2	2.55	0.30	1
1210	04	330	1.55	100	13	18.4	12.4	12	8	4	2	2.55	0.30	1
1812	01	180	1.50	60	13	18.4	13.7	12	8	4	2	3.70	0.35	1
1812	04	330	1.50	100	13	18.4	12.4	12	8	4	2	3.70	0.35	1

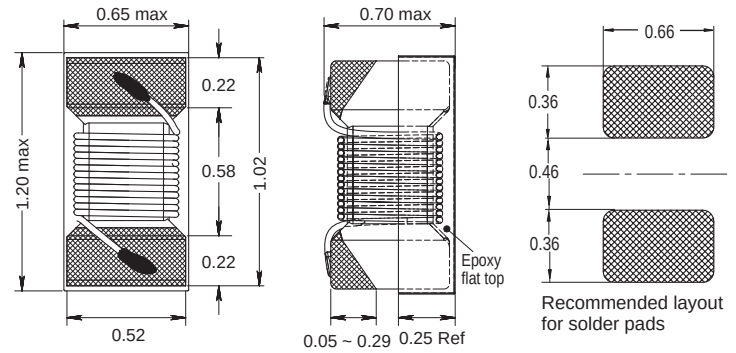
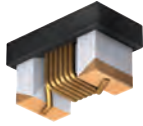
Notes:

* is for FLP series

[#] is for LDM series

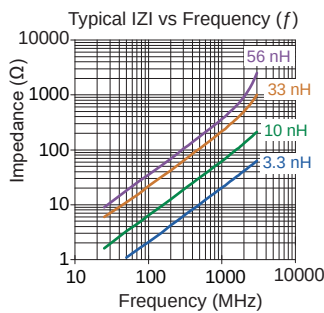
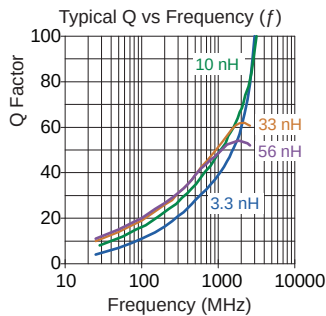
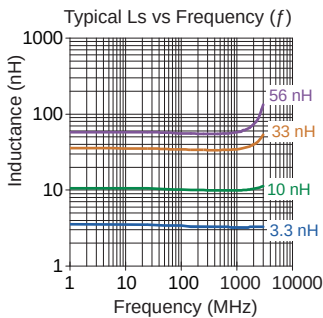
0402 AS

Engineer's Kit: EK-0402AS-X



(Wire wound - open)

Chip Inductors for RF Applications



Single layer (typ)

Part No	Inductance	fL	Tol	Q	fQ	SRF	DCR	Rated DC
	L (nH)	(MHz)	± (%)	min	(MHz)	(MHz)	max (Ω)	Current max (mA)
0402AS-0N9K-YY	0.9	250	10	11	250	6000 min	0.04	1360
0402AS-1N0K-YY	1.0	250	10	11	250	6000 min	0.07	700
* 0402AS-1N2K-YY	1.2	250	10	11	250	6000 min	0.11	700
0402AS-1N8K-YY	1.8	250	10	16	250	6000 min	0.07	1040
0402AS-1N9K-YY	1.9	250	10	16	250	6000 min	0.07	1040
0402AS-2N0K-YY	2.0	250	10	16	250	6000 min	0.07	1040
0402AS-2N2K-YY	2.2	250	10	14	250	6000 min	0.11	640
0402AS-2N4K-YY	2.4	250	10	16	250	6000 min	0.12	640
0402AS-2N5K-YY	2.5	250	10	16	250	6000 min	0.12	640
* 0402AS-2N7K-YY	2.7	250	10	16	250	6000 min	0.12	640
* 0402AS-2N9K-YY	2.9	250	10	16	250	6000 min	0.10	700
0402AS-3N3K-YY	3.3	250	10	20	250	6000 min	0.10	700
0402AS-3N6K-YY	3.6	250	10	19	250	6000 min	0.10	700
0402AS-3N9K-YY	3.9	250	10	19	250	4800 min	0.10	700
0402AS-4N3K-YY	4.3	250	10	18	250	6000 min	0.091	700
0402AS-4N7K-YY	4.7	250	10	15	250	4775 min	0.130	640
0402AS-5N1J-YY	5.1	250	5	23	250	4800 min	0.083	800
0402AS-5N6J-YY	5.6	250	5	22	250	4800 min	0.110	760
0402AS-6N2J-YY	6.2	250	5	20	250	4800 min	0.110	760
0402AS-6N8J-YY	6.8	250	5	21	250	4800 min	0.100	680
0402AS-7N5J-YY	7.5	250	5	24	250	4800 min	0.100	680
0402AS-8N2J-YY	8.2	250	5	24	250	4400 min	0.100	680
0402AS-8N7J-YY	8.7	250	5	22	250	4160 min	0.160	681
0402AS-9N0J-YY	9.0	250	5	22	250	4160 min	0.160	681
0402AS-9N1J-YY	9.1	250	5	22	250	4000 min	0.200	480
0402AS-9N5J-YY	9.5	250	5	22	250	4000 min	0.200	480
0402AS-010J-YY	10	250	5	21	250	3900 min	0.200	480
0402AS-011J-YY	11	250	5	24	250	3680 min	0.170	640
0402AS-012J-YY	12	250	5	24	250	3600 min	0.170	640
0402AS-013J-YY	13	250	5	24	250	3600 min	0.170	640
0402AS-015J-YY	15	250	5	24	250	3280 min	0.170	560
0402AS-016J-YY	16	250	5	24	250	3100 min	0.220	560
0402AS-018J-YY	18	250	5	25	250	3100 min	0.23	420
0402AS-019J-YY	19	250	5	24	250	3040 min	0.24	480
0402AS-020J-YY	20	250	5	25	250	3000 min	0.25	420
0402AS-022J-YY	22	250	5	25	250	2800 min	0.30	400
0402AS-023J-YY	23	250	5	22	250	2720 min	0.30	400
0402AS-024J-YY	24	250	5	22	250	2480 min	0.30	400
0402AS-027J-YY	27	250	5	24	250	2480 min	0.30	400
0402AS-030J-YY	30	250	5	24	250	2350 min	0.30	400
0402AS-033J-YY	33	250	5	24	250	2350 min	0.30	320
0402AS-036J-YY	36	250	5	24	250	2320 min	0.44	320
0402AS-039J-YY	39	250	5	25	250	2100 min	0.55	200
0402AS-040J-YY	40	250	5	25	250	2100 min	0.83	150
0402AS-043J-YY	43	250	5	25	250	2100 min	0.70	150
0402AS-047J-YY	47	250	5	25	250	2100 min	0.83	150
* 0402AS-051J-YY	51	250	5	25	250	1760 min	0.97	100
* 0402AS-056J-YY	56	250	5	25	250	1760 min	0.97	100
* 0402AS-068J-YY	68	250	5	25	250	1620 min	0.97	100
* 0402AS-072J-YY	72	100	5	15	100	1070 min	1.20	80
* 0402AS-R10K-YY	100	100	10	15	100	1070 min	1.20	80
* 0402AS-R12K-YY	120	100	10	12	100	580 min	1.30	75
* 0402AS-R13K-YY	130	100	10	10	100	450 typ	1.30	70
* 0402AS-R15K-YY	150	100	10	13	100	400 typ	1.30	60
* 0402AS-R18K-YY	180	50	10	10	50	380 typ	1.50	65
* 0402AS-R20K-YY	200	50	10	10	50	400 typ	1.50	50
* 0402AS-R22K-YY	220	50	10	10	50	190 typ	2.00	50

Core Material: Ceramic

SPQ: Taped / Reel 1000 [-08]
5000 [-01]

Remarks:

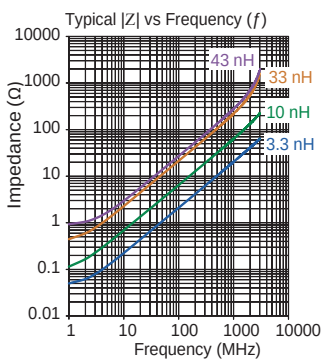
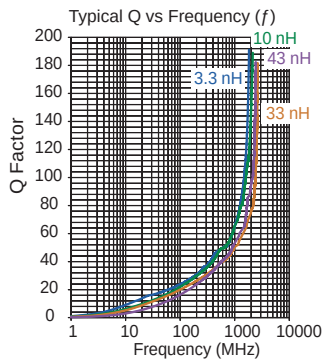
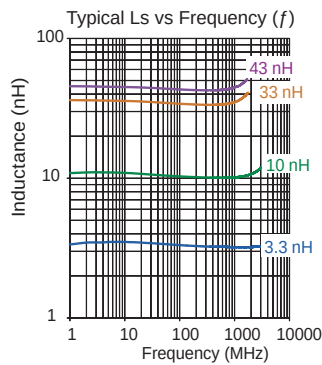
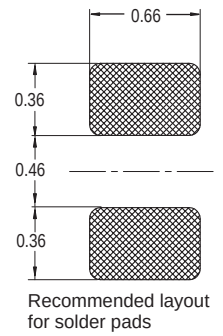
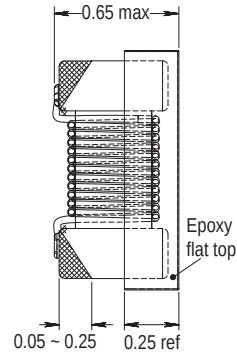
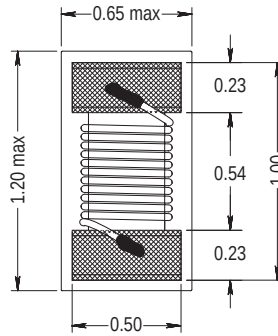
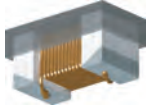
- Unlisted inductance values available upon request.
- 2% and 5% tolerance available upon request.
- All are AEC-Q200 Standard approved EXCEPT *

Revision date: 11 Jan 2022

0402 ASM

Non-magnetic

Engineer's Kit: EK-0402ASM-X



Part No	Inductance	f_L	Tol	Q	f_Q	SRF	DCR	Rated DC
	L (nH)	(MHz)	± (%)	min	(MHz)	min (MHz)	max (Ω)	Current (mA)
0402ASM-1N0K-YY	1.0	250	10	69	900	12700	0.045	1430
0402ASM-1N8K-YY	1.8	250	10	54	900	12000	0.055	1220
0402ASM-1N9K-YY	1.9	250	10	63	900	11300	0.055	1220
0402ASM-2N0K-YY	2.0	250	10	62	900	11300	0.060	1170
0402ASM-2N2K-YY	2.2	250	10	59	900	10800	0.065	1220
0402ASM-3N3K-YY	3.3	250	10	59	900	7000	0.065	690
0402ASM-3N6K-YY	3.6	250	10	55	900	6800	0.065	820
0402ASM-3N9K-YY	3.9	250	10	50	900	6000	0.065	780
0402ASM-4N3K-YY	4.3	250	10	50	900	6000	0.065	700
0402ASM-010J-YY	10	250	5	50	900	3900	0.160	550
0402ASM-012J-YY	12	250	5	50	900	3600	0.200	550
0402ASM-015J-YY	15	250	5	50	900	3660	0.200	530
0402ASM-018J-YY	18	250	5	54	900	3100	0.200	530
0402ASM-022J-YY	22	250	5	53	900	2800	0.300	420
0402ASM-027J-YY	27	250	5	49	900	2480	0.325	400
0402ASM-030J-YY	30	250	5	49	900	2350	0.350	400
0402ASM-033J-YY	33	250	5	40	900	2350	0.400	400
0402ASM-036J-YY	36	250	5	44	900	2320	0.480	350
0402ASM-039J-YY	39	250	5	47	900	2100	0.550	340
0402ASM-040J-YY	40	250	5	44	900	2240	0.550	330
0402ASM-043J-YY	43	250	5	45	900	2030	0.650	330

Core Material: Ceramic

Revision date: 05 Aug 2022

SPQ: Taped / Reel 1000 [-08]
5000 [-01]

Remarks: - Unlisted inductance values available upon request.
- 2% and 5% tolerance available upon request.

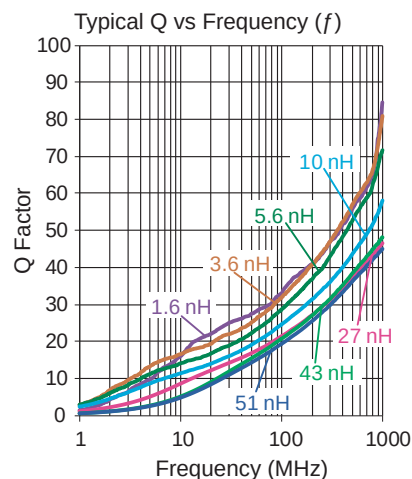
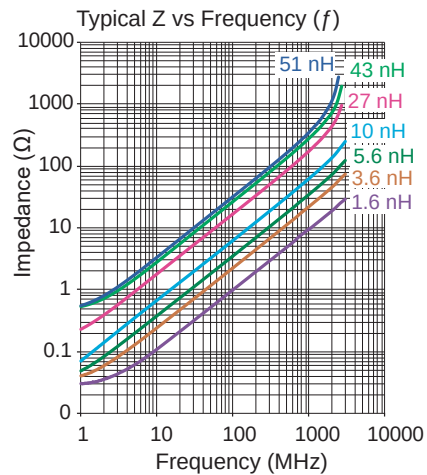
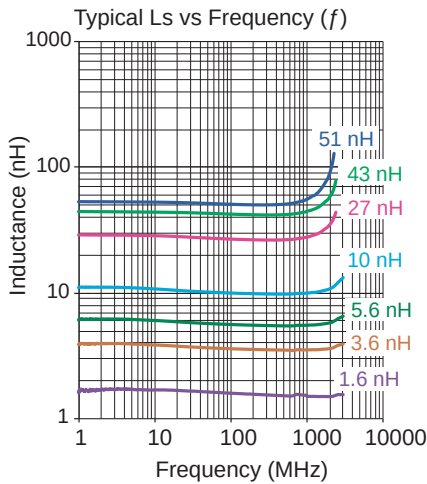
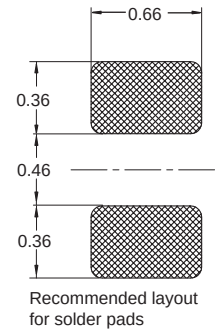
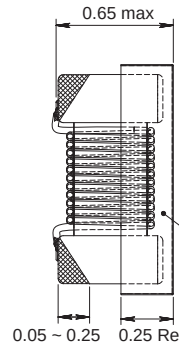
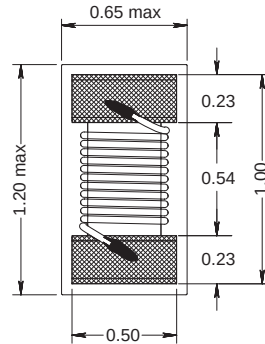
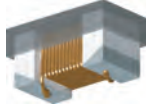
(Wire wound - open)

Chip Inductors for RF / Medical Applications

0402 AQC



Exceptionally High Q and for Higher Currents
Engineer's Kit: EK-0402AQC-X



Single layer (typ)

Part No	Inductance L (nH)	fL (MHz)	Tol ± (%)	Q min	fQ (MHz)	SRF typ (GHz)	DCR max (Ω)	Rated DC Current (A)
0402AQC-0N9M-YY	0.9	100	20	24	250	18	0.015	3.00
0402AQC-1N6K-YY	1.6	100	10	24	250	18	0.040	2.00
0402AQC-2N8K-YY	2.8	100	10	27	250	13.5	0.040	2.00
0402AQC-2N9K-YY	2.9	100	10	27	250	12.5	0.040	2.00
0402AQC-3N0K-YY	3.0	100	10	30	250	12.5	0.040	2.00
0402AQC-3N3K-YY	3.3	100	10	30	250	14.0	0.040	2.00
0402AQC-3N6K-YY	3.6	100	10	30	250	10.0	0.040	2.00
0402AQC-3N9K-YY	3.9	100	10	32	250	10.0	0.040	2.00
0402AQC-4N3K-YY	4.3	100	10	32	250	9.60	0.060	1.80
0402AQC-4N7K-YY	4.7	100	10	31	250	8.00	0.050	1.85
0402AQC-5N1K-YY	5.1	100	10	31	250	8.00	0.050	1.85
0402AQC-5N6K-YY	5.6	100	10	31	250	8.00	0.050	1.85
0402AQC-5N9K-YY	5.9	100	10	31	250	8.00	0.050	1.85
0402AQC-6N2K-YY	6.2	100	10	31	250	8.00	0.050	1.80
0402AQC-6N8J-YY	6.8	100	5	30	250	7.00	0.065	1.70
0402AQC-7N2J-YY	7.2	100	5	31	250	7.00	0.065	1.70
0402AQC-7N5J-YY	7.5	100	5	31	250	7.00	0.065	1.70
0402AQC-8N2J-YY	8.2	100	5	30	250	6.50	0.065	1.65
0402AQC-8N7J-YY	8.7	100	5	30	250	6.50	0.070	1.50
0402AQC-9N0J-YY	9.0	100	5	30	250	6.50	0.078	1.50
0402AQC-9N1J-YY	9.1	100	5	30	250	6.50	0.078	1.50
0402AQC-9N2J-YY	9.2	100	5	30	250	6.00	0.078	1.50
0402AQC-9N5J-YY	9.5	100	5	30	250	6.00	0.080	1.50
0402AQC-010J-YY	10	100	5	30	250	6.00	0.080	1.50
0402AQC-011J-YY	11	100	5	30	250	6.00	0.080	1.50
0402AQC-012J-YY	12	100	5	30	250	5.20	0.095	1.35
0402AQC-013J-YY	13	100	5	30	250	5.20	0.095	1.35
0402AQC-015J-YY	15	100	5	28	250	5.50	0.120	1.15
0402AQC-016J-YY	16	100	5	26	250	5.00	0.140	1.10
0402AQC-017J-YY	17	100	5	26	250	5.00	0.140	1.10
0402AQC-018J-YY	18	100	5	26	250	5.00	0.140	1.10
0402AQC-019J-YY	19	100	5	26	250	5.00	0.140	1.10
0402AQC-020J-YY	20	100	5	26	250	4.50	0.225	0.80
0402AQC-021J-YY	21	100	5	26	250	4.50	0.225	0.80
0402AQC-022J-YY	22	100	5	25	250	4.50	0.225	0.80
0402AQC-023J-YY	23	100	5	25	250	4.50	0.225	0.80
0402AQC-024J-YY	24	100	5	25	250	4.00	0.225	0.80
0402AQC-025J-YY	25	100	5	25	250	4.00	0.255	0.80
0402AQC-026J-YY	26	100	5	25	250	4.00	0.270	0.80
0402AQC-027J-YY	27	100	5	25	250	4.00	0.270	0.80
0402AQC-030J-YY	30	100	5	25	250	3.80	0.290	0.70
0402AQC-033J-YY	33	100	5	25	250	3.60	0.345	0.65
0402AQC-036J-YY	36	100	5	25	250	3.50	0.455	0.60
0402AQC-039J-YY	39	100	5	25	250	3.40	0.455	0.60
0402AQC-043J-YY	43	100	5	25	250	3.40	0.585	0.45
0402AQC-047J-YY	47	100	5	25	250	3.20	0.600	0.45
0402AQC-051J-YY	51	100	5	25	250	2.90	0.690	0.45

Core Material: Ceramic

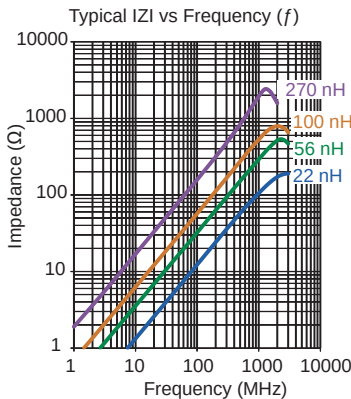
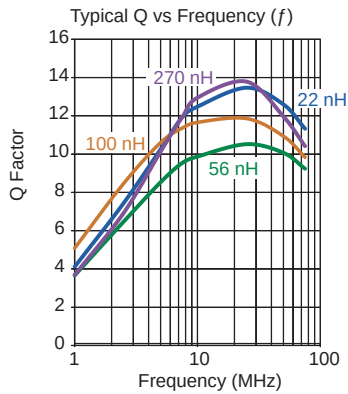
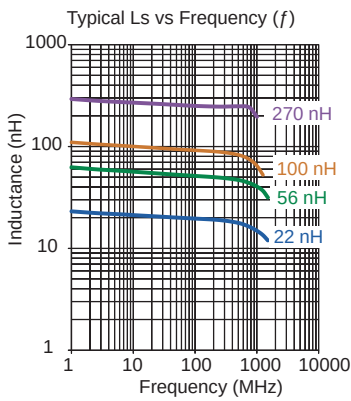
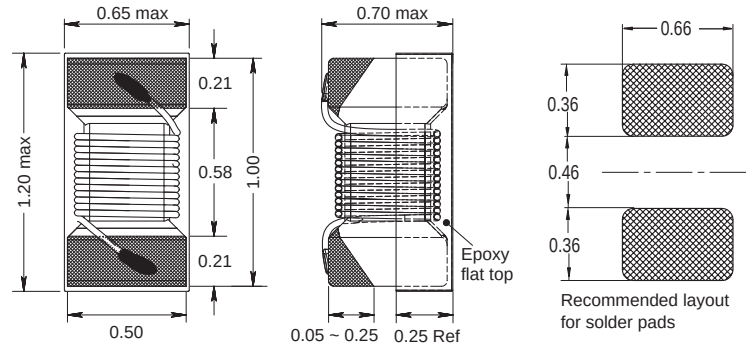
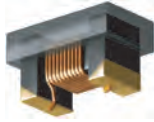
Revision date: 05 Aug 2022

SPQ: Taped / Reel 1000 [-08]
5000 [-01]

Remarks: - Unlisted inductance values available upon request.
- 3% and 5% tolerance available upon request.

0402 F

Engineer's Kit: EK-0402F-X



Part No	Inductance	f _L	Tol	Z _{typ}	f _Z	SRF _{typ}	DCR _{max}	Rated DC Current
	L (nH)	(MHz)	± (%)	(Ω)	(MHz)	(MHz)	(Ω)	(A)
0402F-020K-YY	20	7.9	10	75	900	2580	0.040	1.600
0402F-022K-YY	22	7.9	10	85	900	2500	0.060	1.600
0402F-033K-YY	33	7.9	10	130	900	2300	0.065	1.400
0402F-036K-YY	36	7.9	10	140	900	2300	0.075	1.400
0402F-051K-YY	51	7.9	10	200	900	1930	0.075	1.300
0402F-056K-YY	56	7.9	10	230	900	1900	0.095	1.200
0402F-078K-YY	78	7.9	10	330	900	1600	0.120	1.000
0402F-R10K-YY	100	7.9	10	425	900	1400	0.150	1.000
0402F-R14K-YY	140	7.9	10	640	900	1220	0.260	0.640
0402F-R18K-YY	180	7.9	10	850	900	1090	0.280	0.600
0402F-R22K-YY	220	7.9	10	1030	900	990	0.520	0.400
0402F-R27K-YY	270	7.9	10	1400	900	880	0.550	0.380

Core Material: Ferrite

Revision date: 11 Jan 2022

SPQ: Taped / Reel 1000 [-08]
5000 [-01]

Remarks: - Unlisted inductance values available upon request.
- 5% tolerance available upon request.

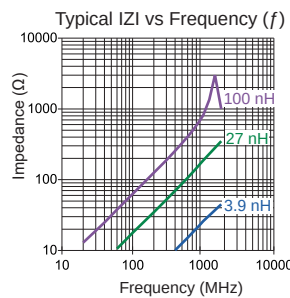
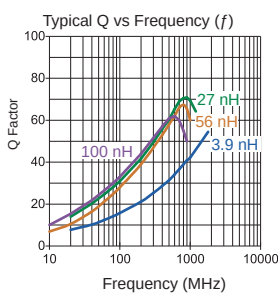
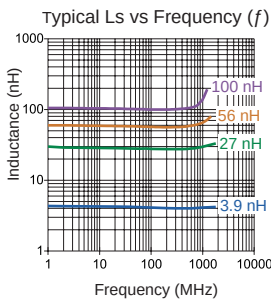
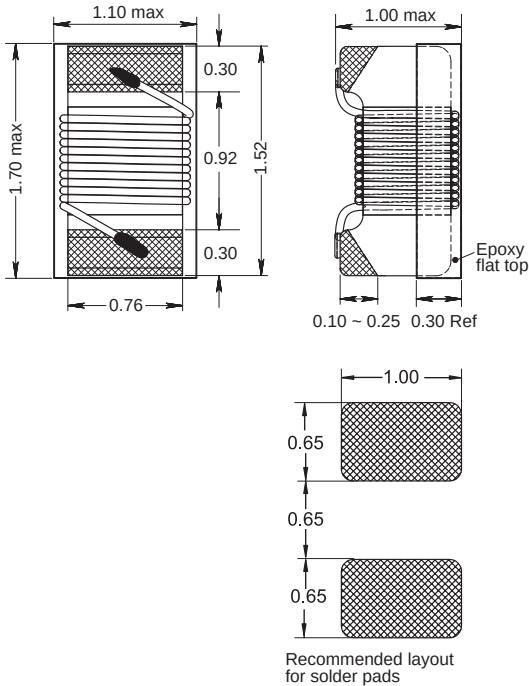
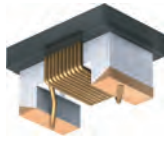
(Wire wound - open)

Chip Inductors for RF Applications

0603 AS



Engineer's Kit: EK-0603AS-X



Core Material: Ceramic

SPQ: Taped / Reel 1000 [-08]

4000 [-01]

Remarks: 15000 [-04]

- Unlisted inductance values available upon request.
- 2% and 5% tolerance available upon request.
- All are AEC-Q200 Standard approved EXCEPT *.

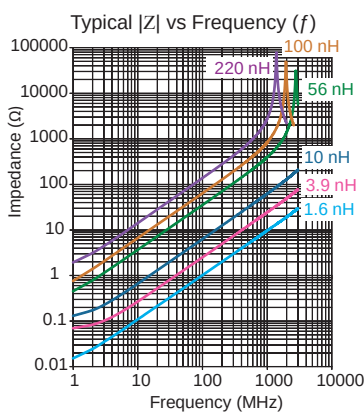
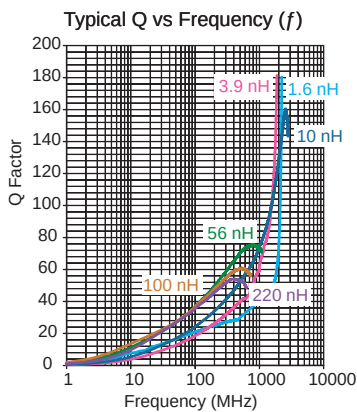
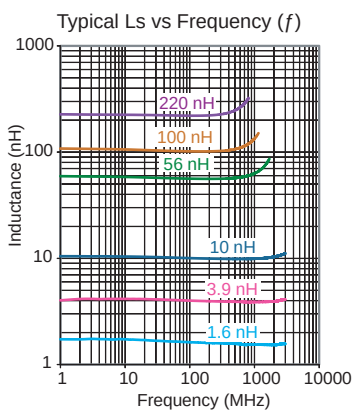
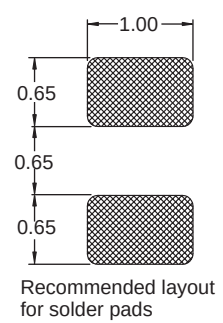
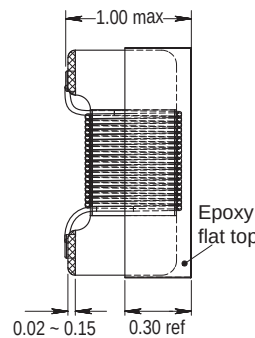
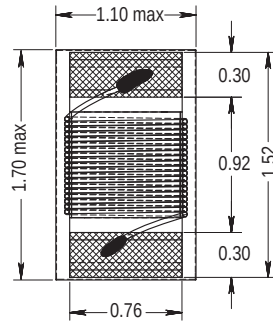
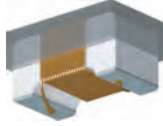
Part No	Inductance L (nH)	f _L (MHz)	Tol ± (%)	Q min	f _Q (MHz)	SRF (MHz)	DCR max (Ω)	Rated DC Current (mA)
0603AS-1N2M-YY	1.2	250	20	30	250	>6000 min	0.030	850
0603AS-1N3M-YY	1.3	250	20	30	250	>6000 min	0.030	850
0603AS-1N5K-YY	1.5	250	10	20	250	>6000 min	0.030	850
0603AS-1N6K-YY	1.6	250	10	20	250	>6000 min	0.030	850
0603AS-1N8K-YY	1.8	250	10	16	250	>6000 min	0.045	700
0603AS-2N0K-YY	2.0	250	10	10	250	5900 min	0.17	170
0603AS-2N2M-YY	2.2	250	20	10	250	5900 min	0.17	170
#0603AS-3N3K-YY	3.3	250	10	22	250	6000 min	0.10	700
0603AS-3N6K-YY	3.6	250	10	20	250	>6000 min	0.08	700
0603AS-3N9K-YY	3.9	250	10	22	250	>6000 min	0.08	700
0603AS-4N3K-YY	4.3	250	10	25	250	>6000 min	0.07	700
0603AS-4N7K-YY	4.7	250	10	25	250	>6000 min	0.07	700
0603AS-5N1K-YY	5.1	250	10	20	250	>6000 min	0.10	700
#0603AS-5N6K-YY	5.6	250	10	27	250	6000 min	0.12	700
0603AS-6N2J-YY	6.2	250	5	25	250	5800 min	0.11	700
0603AS-6N8J-YY	6.8	250	5	27	250	5800 min	0.11	700
0603AS-7N5J-YY	7.5	250	5	30	250	5400 min	0.12	700
0603AS-7N6J-YY	7.6	250	5	30	250	5400 min	0.12	700
0603AS-8N0J-YY	8.0	250	5	30	250	5400 min	0.12	700
0603AS-8N2J-YY	8.2	250	5	30	250	5400 min	0.12	700
0603AS-8N7J-YY	8.7	250	5	28	250	4600 min	0.109	700
0603AS-8N9J-YY	8.9	250	5	25	250	4600 min	0.19	700
0603AS-9N5J-YY	9.5	250	5	25	250	5000 min	0.19	700
0603AS-010J-YY	10	250	5	31	250	4800 min	0.13	700
0603AS-011J-YY	11	250	5	35	250	4000 min	0.13	700
0603AS-012J-YY	12	250	5	35	250	4000 min	0.13	700
0603AS-015J-YY	15	250	5	35	250	4000 min	0.17	700
0603AS-016J-YY	16	250	5	35	250	3200 min	0.17	700
0603AS-018J-YY	18	250	5	35	250	3100 min	0.17	700
0603AS-022J-YY	22	250	5	38	250	3000 min	0.19	700
0603AS-024J-YY	24	250	5	38	250	2800 min	0.22	600
0603AS-027J-YY	27	250	5	40	250	2800 min	0.22	600
0603AS-030J-YY	30	250	5	40	250	2300 min	0.22	600
0603AS-033J-YY	33	250	5	40	250	2300 min	0.22	600
0603AS-036J-YY	36	250	5	40	250	2200 min	0.25	600
0603AS-039J-YY	39	250	5	40	250	2200 min	0.25	600
0603AS-043J-YY	43	250	5	40	250	2000 min	0.28	600
0603AS-047J-YY	47	200	5	38	200	2000 min	0.28	600
0603AS-051J-YY	51	200	5	38	200	1900 min	0.28	600
0603AS-056J-YY	56	200	5	38	200	1900 min	0.31	400
0603AS-068J-YY	68	200	5	37	200	1700 min	0.34	400
0603AS-072J-YY	72	150	5	34	150	1700 min	0.49	400
0603AS-082J-YY	82	150	5	34	150	1700 min	0.54	400
0603AS-090J-YY	90	150	5	34	150	1700 min	0.54	400
0603AS-R10J-YY	100	150	5	34	150	1400 min	0.58	400
0603AS-R11J-YY	110	150	5	34	150	1350 min	0.61	300
0603AS-R12J-YY	120	150	5	34	150	1300 min	0.65	300
0603AS-R13J-YY	130	150	5	32	150	1200 min	0.90	200
0603AS-R15J-YY	150	150	5	32	150	1200 min	0.90	200
0603AS-R18J-YY	180	100	5	32	100	1100 min	1.20	200
0603AS-R20J-YY	200	100	5	30	100	1100 min	1.55	200
0603AS-R22J-YY	220	100	5	30	100	1000 min	1.60	150
* 0603AS-R25J-YY	250	100	5	25	100	950 min	2.30	150
* 0603AS-R27J-YY	270	100	5	25	100	950 min	2.30	150
* 0603AS-R30J-YY	300	100	5	25	100	900 min	2.40	150
* 0603AS-R33J-YY	330	100	5	25	100	600 min	2.50	150
* 0603AS-R39K-YY	390	100	10	25	100	450 min	2.90	150
0603AS-R47K-YY	470	25	10	16	25	230 typ	2.80	150
0603AS-R51K-YY	510	25	10	16	25	150 typ	2.90	150
0603AS-R56K-YY	560	25	10	16	25	150 typ	2.90	150
0603AS-R68K-YY	680	25	10	16	25	140 typ	3.00	140
0603AS-R75K-YY	750	25	10	16	25	320 typ	3.50	130
* 0603AS-R82K-YY	820	25	10	16	25	290 typ	3.70	120
* 0603AS-R91K-YY	910	25	10	16	25	140 typ	3.80	120
* 0603AS-1R0K-YY	1000	25	10	16	25	250 typ	4.00	110
* 0603AS-1R2K-YY	1200	25	10	16	25	140 typ	4.20	100

Revision date: 08 Jun 2023

0603 ASM

Non-magnetic

Engineer's Kit: EK-0603ASM-X



Single layer (typ) EXCEPT #

Part No	Inductance L (nH)	f_L (MHz)	Tol ± (%)	Q min	f_Q (MHz)	SRF (MHz)	DCR max (Ω)	Rated DC Current (mA)
0603ASM-1N6K-YY	1.6	250	10	20	250	>6000 min	0.030	850
0603ASM-1N8K-YY	1.8	250	10	16	250	>6000 min	0.045	700
0603ASM-2N0K-YY	2.0	250	10	10	250	5900 min	0.17	170
# 0603ASM-3N3K-YY	3.3	250	10	22	250	6000 min	0.10	700
0603ASM-3N6K-YY	3.6	250	10	20	250	>6000 min	0.08	700
0603ASM-3N9K-YY	3.9	250	10	22	250	>6000 min	0.08	700
0603ASM-4N3K-YY	4.3	250	10	25	250	>6000 min	0.07	700
0603ASM-4N7K-YY	4.7	250	10	25	250	>6000 min	0.07	700
0603ASM-5N1K-YY	5.1	250	10	20	250	>6000 min	0.10	700
# 0603ASM-5N6K-YY	5.6	250	10	27	250	6000 min	0.12	700
0603ASM-6N8J-YY	6.8	250	5	27	250	5800 min	0.11	700
0603ASM-7N5J-YY	7.5	250	5	30	250	5400 min	0.12	700
0603ASM-8N2J-YY	8.2	250	5	30	250	5400 min	0.12	700
0603ASM-8N7J-YY	8.7	250	5	28	250	4600 min	0.109	700
0603ASM-9N5J-YY	9.5	250	5	25	250	5000 min	0.19	700
0603ASM-010J-YY	10	250	5	31	250	4800 min	0.13	700
0603ASM-011J-YY	11	250	5	35	250	4000 min	0.13	700
0603ASM-012J-YY	12	250	5	35	250	4000 min	0.13	700
0603ASM-015J-YY	15	250	5	35	250	4000 min	0.17	700
0603ASM-016J-YY	16	250	5	35	250	3200 min	0.17	700
0603ASM-018J-YY	18	250	5	35	250	3100 min	0.17	700
0603ASM-022J-YY	22	250	5	38	250	3000 min	0.19	700
0603ASM-024J-YY	24	250	5	38	250	2800 min	0.22	600
0603ASM-027J-YY	27	250	5	40	250	2800 min	0.22	600
0603ASM-030J-YY	30	250	5	40	250	2300 min	0.22	600
0603ASM-033J-YY	33	250	5	40	250	2300 min	0.22	600
0603ASM-036J-YY	36	250	5	40	250	2200 min	0.25	600
0603ASM-039J-YY	39	250	5	40	250	2200 min	0.25	600
0603ASM-043J-YY	43	250	5	38	250	2000 min	0.28	600
0603ASM-047J-YY	47	200	5	38	200	2000 min	0.28	600
0603ASM-051J-YY	51	200	5	38	200	1900 min	0.28	600
0603ASM-056J-YY	56	200	5	38	200	1900 min	0.31	400
0603ASM-068J-YY	68	200	5	37	200	1700 min	0.34	400
0603ASM-072J-YY	72	150	5	34	150	1700 min	0.49	400
0603ASM-082J-YY	82	150	5	34	150	1700 min	0.54	400
0603ASM-R10J-YY	100	150	5	34	150	1400 min	0.58	400
0603ASM-R11J-YY	110	150	5	34	150	1350 min	0.61	300
0603ASM-R12J-YY	120	150	5	34	150	1300 min	0.65	300
0603ASM-R15J-YY	150	150	5	32	150	1200 min	0.90	200
0603ASM-R18J-YY	180	100	5	32	100	1100 min	1.20	200
0603ASM-R20J-YY	200	100	5	30	100	1100 min	1.55	200
0603ASM-R22J-YY	220	100	5	30	100	1000 min	1.60	150

Core Material: Ceramic

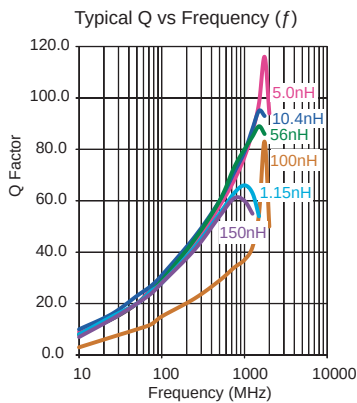
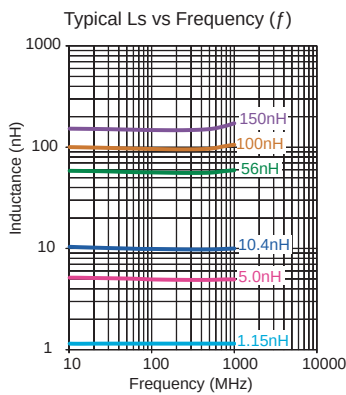
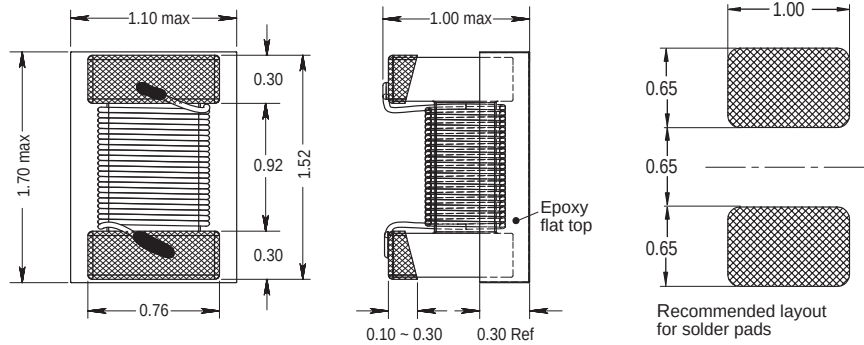
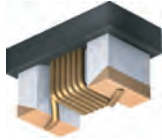
Revision date: 12 Aug 2022

SPQ: Taped / Reel 1000 [-08]
4000 [-01]
15000 [-04]

Remarks: - Unlisted inductance values available upon request.
- 2% and 5% tolerance available upon request.

0603 AQ

Exceptionally High Q
Engineer's Kit: EK-0603AQ-X



Single layer (typ)

Part No	Inductance L (nH)	f _L (MHz)	Tol ± (%)	Q min	f _Q (MHz)	SRF (GHz)	DCR max (Ω)	Rated DC Current (A)
0603AQ-1N1M-YY	1.15	500	20	35	500	12.30 min	0.020	3.20
0603AQ-2N6M-YY	2.6	500	20	45	500	9.30 min	0.020	2.30
0603AQ-4N5K-YY	4.5	500	10	56	500	5.80 min	0.020	2.00
0603AQ-5N0K-YY	5.0	500	10	50	500	5.30 min	0.023	1.40
0603AQ-6N8J-YY	6.8	500	5	55	500	4.70 min	0.035	1.70
0603AQ-7N6J-YY	7.6	500	5	51	500	4.40 min	0.035	1.43
0603AQ-010J-YY	10.4	500	5	54	500	3.74 min	0.035	1.50
0603AQ-015J-YY	15	500	5	54	500	3.30 min	0.035	1.40
0603AQ-022J-YY	22	500	5	54	500	2.43 min	0.070	1.20
0603AQ-023J-YY	23	500	5	54	500	2.62 min	0.130	1.00
0603AQ-029J-YY	29	500	5	54	500	2.43 min	0.130	0.90
0603AQ-034J-YY	34	500	5	53	500	2.25 min	0.140	0.80
0603AQ-042J-YY	42	500	5	54	500	2.00 min	0.220	0.68
0603AQ-047J-YY	47	500	5	52	500	2.00 min	0.310	0.57
0603AQ-056J-YY	56	500	5	54	500	1.76 min	0.400	0.44
0603AQ-R10J-YY	100	500	5	49	500	1.20 min	0.650	0.36
0603AQ-R12J-YY	120	500	5	49	500	1.20 min	0.900	0.25
0603AQ-R15J-YY	150	500	5	48	500	1.13 min	1.320	0.20
0603AQ-R18J-YY	180	500	5	42	500	0.80 typ	1.610	0.19
0603AQ-R22K-YY	220	500	10	27	500	0.80 typ	1.610	0.19

Core Material: Ceramic

Revision date: 11 Jan 2022

SPQ: Taped / Reel 1000 [-08]
4000 [-01]
15000 [-04]

Remarks: - Unlisted inductance values available upon request.
- 2% and 5% tolerance available upon request.

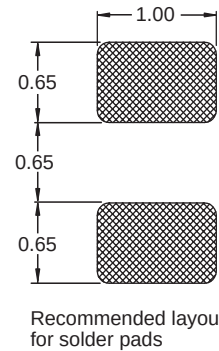
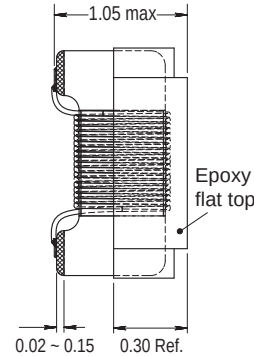
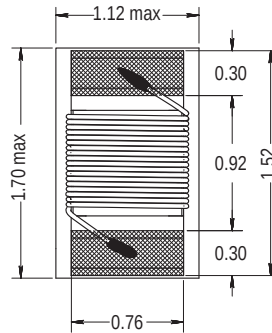
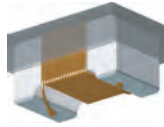


0603 AQC

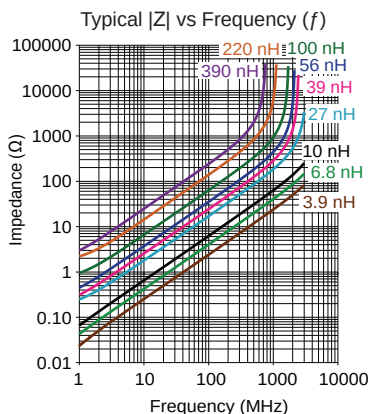
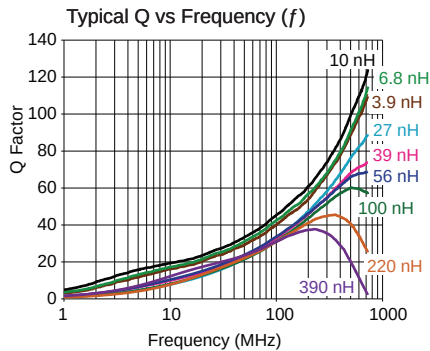
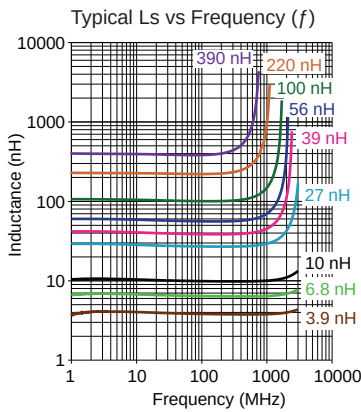


Exceptionally High Q and for Higher Currents

Engineer's Kit: EK-0603AQC-X



Recommended layout for solder pads



Single layer (typ)

Part No	Inductance	f_L	Tol	Q	f_Q	SRF	DCR	Rated DC
	L (nH)	(MHz)	± (%)	min	(MHz)	(GHz)	max (Ω)	Current (A)
0603AQC-3N9K-YY	3.9	100	10	50	250	10.00 min	0.025	3.50
0603AQC-5N6K-YY	5.6	100	10	42	250	6.65 min	0.045	3.00
0603AQC-6N8K-YY	6.8	100	10	42	250	6.65 min	0.045	3.00
0603AQC-7N5K-YY	7.5	100	10	42	250	3.90 min	0.045	3.00
0603AQC-9N5K-YY	9.5	100	10	42	250	3.90 min	0.050	2.70
0603AQC-010J-YY	10	100	5	45	250	3.85 min	0.050	2.70
0603AQC-011J-YY	11	100	5	45	250	3.50 min	0.050	2.50
0603AQC-012J-YY	12	100	5	45	250	3.00 min	0.055	2.50
0603AQC-015J-YY	15	100	5	45	250	3.00 min	0.070	2.50
0603AQC-016J-YY	16	100	5	45	250	2.80 min	0.070	2.50
0603AQC-018J-YY	18	100	5	42	250	2.50 min	0.080	2.40
0603AQC-022J-YY	22	100	5	42	250	2.40 min	0.085	2.30
0603AQC-024J-YY	24	100	5	42	250	2.40 min	0.085	2.25
0603AQC-027J-YY	27	100	5	42	250	2.40 min	0.095	1.60
0603AQC-030J-YY	30	100	5	42	250	2.30 min	0.100	1.60
0603AQC-033J-YY	33	100	5	42	250	2.30 min	0.110	1.60
0603AQC-036J-YY	36	100	5	40	250	2.30 min	0.140	1.60
0603AQC-039J-YY	39	100	5	40	250	2.30 min	0.160	1.50
0603AQC-043J-YY	43	100	5	40	250	2.30 min	0.180	1.00
0603AQC-047J-YY	47	100	5	40	250	2.20 min	0.190	1.00
0603AQC-051J-YY	51	100	5	40	250	2.20 min	0.210	1.00
0603AQC-056J-YY	56	100	5	40	250	2.10 min	0.230	1.00
0603AQC-068J-YY	68	100	5	40	250	2.10 min	0.380	0.90
0603AQC-072J-YY	72	100	5	40	250	2.00 min	0.410	0.85
0603AQC-082J-YY	82	100	5	40	250	2.00 min	0.485	0.80
0603AQC-R10J-YY	100	100	5	38	250	1.75 min	0.550	0.70
0603AQC-R11J-YY	110	100	5	38	250	1.65 min	0.590	0.60
0603AQC-R12J-YY	120	100	5	38	250	1.60 min	0.685	0.50
0603AQC-R15J-YY	150	100	5	38	250	1.45 min	0.850	0.45
0603AQC-R18J-YY	180	100	5	35	250	1.40 min	1.300	0.40
0603AQC-R20J-YY	200	100	5	35	250	1.35 min	1.500	0.35
0603AQC-R22J-YY	220	100	5	35	250	1.20 typ	1.600	0.30
0603AQC-R25J-YY	250	100	5	35	250	1.00 typ	1.650	0.30
0603AQC-R27J-YY	270	100	5	30	250	0.85 typ	1.700	0.30
0603AQC-R30J-YY	300	100	5	30	250	0.75 typ	1.760	0.30
0603AQC-R33J-YY	330	100	5	30	250	0.75 typ	1.960	0.25
0603AQC-R39J-YY	390	100	5	27	250	0.65 typ	2.100	0.25

Core Material: Ceramic

Revision date: 20 Jul 2023

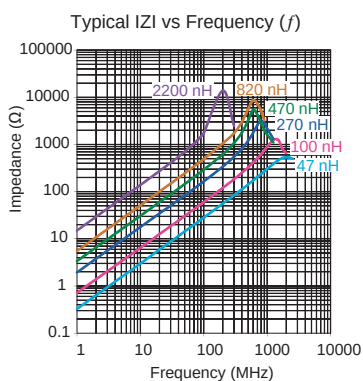
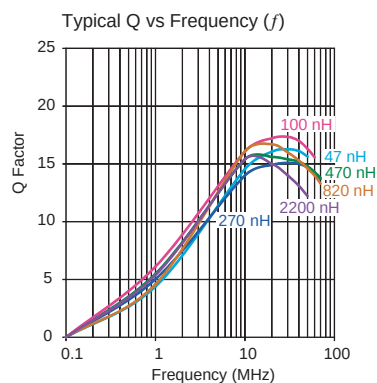
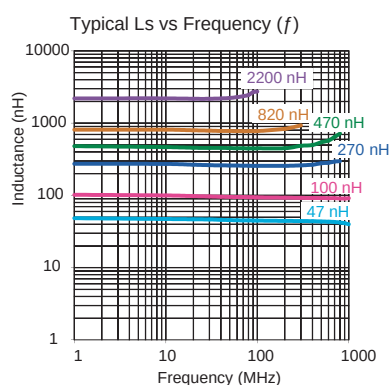
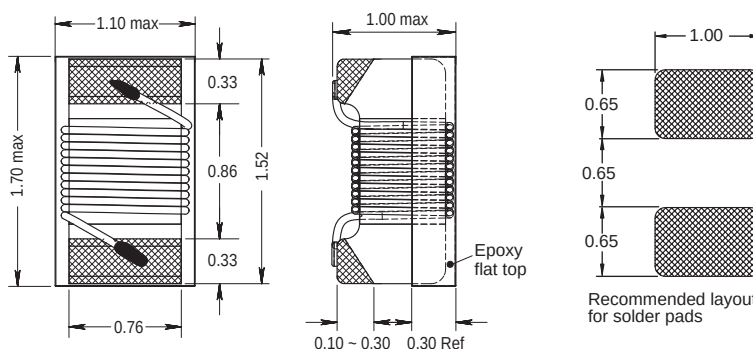
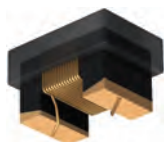
SPQ: Taped / Reel 1000 [-08]
4000 [-01]
15000 [-04]

Remarks: Unlisted inductance values available upon request.

0603 F



Engineer's Kit: EK-0603F-X



Part No	Inductance L (nH)	f _L (MHz)	Tol ± (%)	Q min	f _Q (MHz)	SRF (MHz)	DCR max (Ω)	Rated DC Current (A)
0603F-047K-YY	47	7.9	10	12	7.9	1500 min	0.075	1.40
0603F-072K-YY	72	7.9	10	12	7.9	1400 min	0.12	1.40
0603F-R10K-YY	100	7.9	10	12	7.9	1150 min	0.13	1.40
0603F-R12K-YY	120	7.9	10	12	7.9	1100 min	0.15	1.40
0603F-R15K-YY	150	7.9	10	12	7.9	1050 min	0.15	1.30
0603F-R18K-YY	180	7.9	10	12	7.9	950 min	0.15	1.30
0603F-R22K-YY	220	7.9	10	12	7.9	800 min	0.16	0.95
0603F-R24K-YY	240	7.9	10	12	7.9	800 min	0.16	0.95
0603F-R27K-YY	270	7.9	10	12	7.9	775 min	0.30	0.71
0603F-R33K-YY	330	7.9	10	12	7.9	725 min	0.46	0.56
0603F-R39K-YY	390	7.9	10	12	7.9	620 min	0.51	0.50
0603F-R47K-YY	470	7.9	10	12	7.9	540 min	0.62	0.42
0603F-R56K-YY	560	7.9	10	12	7.9	525 min	0.44	0.55
0603F-R68K-YY	680	7.9	10	12	7.9	260 min	0.52	0.47
0603F-R78K-YY	780	7.9	10	12	7.9	460 min	0.69	0.39
0603F-R82K-YY	820	7.9	10	12	7.9	410 min	0.83	0.40
0603F-1R0K-YY	1000	7.9	10	12	7.9	280 min	1.10	0.40
0603F-1R2K-YY	1200	7.9	10	12	7.9	230 min	1.70	0.35
0603F-1R5K-YY	1500	7.9	10	12	7.9	230 min	1.70	0.35
0603F-1R8K-YY	1800	7.9	10	12	7.9	170 typ	1.85	0.35
0603F-2R2K-YY	2200	7.9	10	12	7.9	140 typ	2.00	0.32

Core Material: Ferrite

Revision date: 11 Jan 2022

SPQ: Taped / Reel 1000 [-08]
4000 [-01]
15000 [-04]

Remarks: - Unlisted inductance values available upon request.
- 2% and 5% tolerance available upon request.

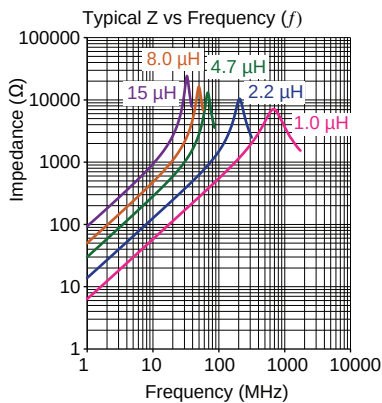
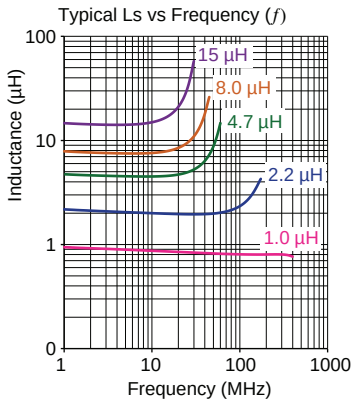
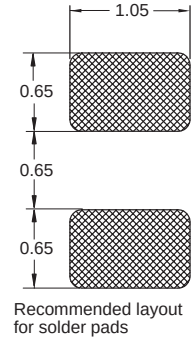
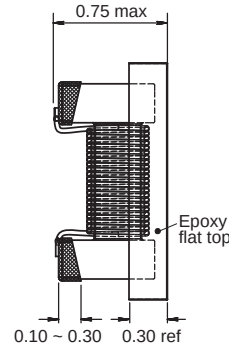
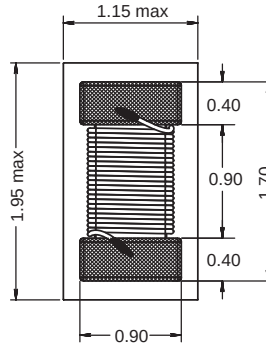
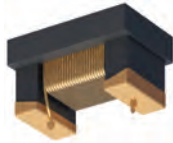
0603 FLP



Semi-shielded

Low Profile Design

Engineer's Kit: EK-0603FLP-X



Part No	Inductance	f_L	Tol	SRF	DCR	Rated DC Current (A)	
	L (μH)	(MHz)	± (%)	typ (MHz)	max (Ω)	I _{sat}	I _{rms}
0603FLP-R56M-YY	0.56	1.0	20	850	0.300	0.700	0.680
0603FLP-R68M-YY	0.68	1.0	20	670	0.350	0.620	0.600
0603FLP-1R0M-YY	1.0	1.0	20	450	0.380	0.560	0.540
0603FLP-1R5M-YY	1.5	1.0	20	175	0.520	0.440	0.420
0603FLP-2R2M-YY	2.2	1.0	20	150	0.750	0.380	0.350
0603FLP-4R7M-YY	4.7	1.0	20	55	1.050	0.300	0.300
0603FLP-6R8M-YY	6.8	1.0	20	40	1.500	0.240	0.280
0603FLP-8R0M-YY	8.0	1.0	20	40	2.500	0.200	0.200
0603FLP-100M-YY	10	1.0	20	30	2.900	0.180	0.180
0603FLP-150M-YY	15	1.0	20	25	3.600	0.140	0.140

Core Material: Ferrite

Revision date: 08 Mar 2024

SPQ: Taped / Reel 1000 [-08]
4000 [-01]
15000 [-04]

Remarks: Unlisted inductance values available upon request.

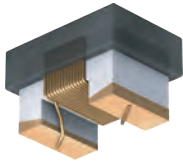
(Wire wound - open)

Chip Inductors for RF Applications

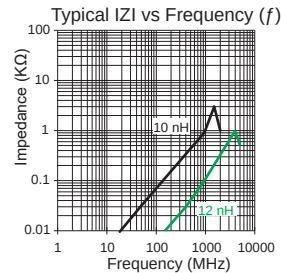
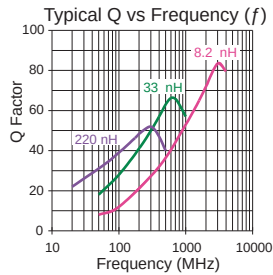
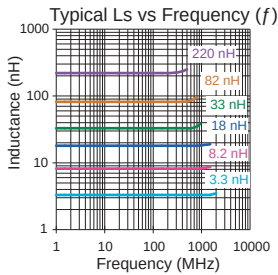
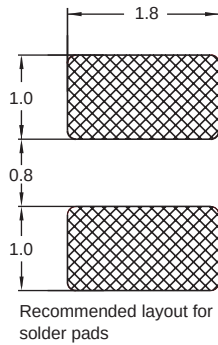
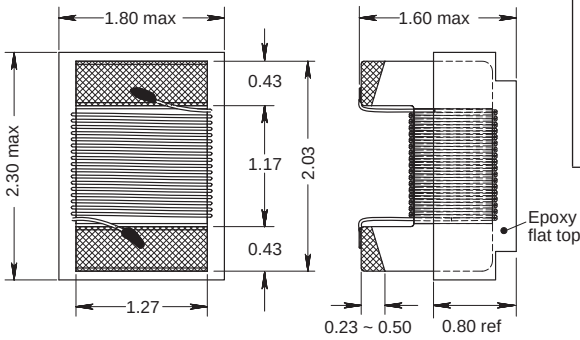


0805 AS

Engineer's Kit: EK-0805AS-X



(Wire wound - open)



Core Material: Ceramic

SPQ: Taped / Reel 1000 [-08]
2500 [-01]
7500 [-04]

Remarks:

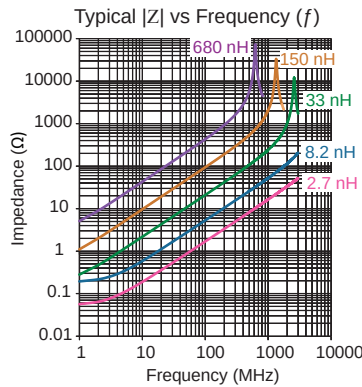
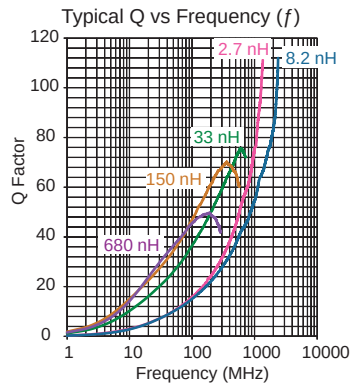
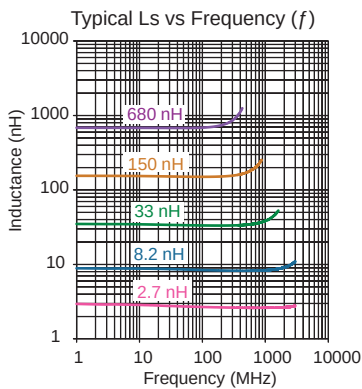
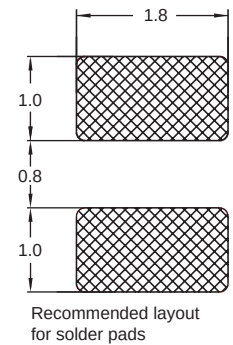
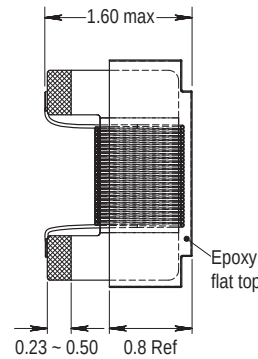
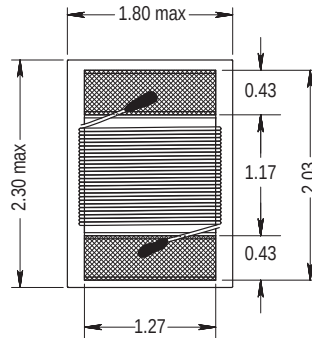
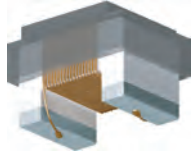
- Unlisted inductance values available upon request.
- 2% and 5% tolerance available upon request.
- All are AEC-Q200 Standard approved EXCEPT *.

Single layer (typ)

Part No	Inductance	f _L	Tol	Q	f _Q	SRF	DCR	Rated DC
	L (nH)	(MHz)	± (%)	min	(MHz)	(MHz)	max (Ω)	Current (mA)
0805AS-2N7K-YY	2.7	250	10	80	1500	6000 min	0.08	600
0805AS-3N3K-YY	3.3	250	10	50	1500	6000 min	0.08	600
0805AS-3N6K-YY	3.6	250	10	25	1500	6000 min	0.18	600
* 0805AS-3N9K-YY	3.9	250	10	25	1000	6000 min	0.20	600
0805AS-5N6K-YY	5.6	250	10	53	1000	5500 min	0.11	600
0805AS-5N8K-YY	5.8	250	10	50	1000	5500 min	0.11	600
0805AS-6N8K-YY	6.8	250	10	50	1000	5500 min	0.11	600
0805AS-8N0K-YY	8.0	250	10	51	1000	4700 min	0.12	600
0805AS-8N2K-YY	8.2	250	10	50	1000	4700 min	0.12	600
0805AS-010J-YY	10	250	5	43	1000	4300 min	0.13	600
0805AS-011J-YY	11	250	5	65	1000	4000 min	0.13	600
0805AS-012J-YY	12	250	5	50	500	4000 min	0.15	600
0805AS-015J-YY	15	250	5	50	500	3400 min	0.17	600
0805AS-018J-YY	18	250	5	53	500	3300 min	0.20	500
0805AS-022J-YY	22	250	5	57	500	2600 min	0.22	500
0805AS-027J-YY	27	250	5	55	500	2500 min	0.25	500
0805AS-033J-YY	33	250	5	60	500	2050 min	0.27	500
0805AS-036J-YY	36	250	5	60	500	2050 min	0.27	600
0805AS-039J-YY	39	250	5	60	500	2000 min	0.29	500
0805AS-047J-YY	47	200	5	65	500	1650 min	0.31	500
0805AS-048J-YY	48	200	5	65	500	1580 min	0.30	500
0805AS-056J-YY	56	200	5	64	500	1550 min	0.34	500
0805AS-068J-YY	68	200	5	65	500	1450 min	0.38	400
0805AS-075J-YY	75	200	5	55	500	1300 min	0.42	400
0805AS-082J-YY	82	150	5	67	500	1300 min	0.42	400
0805AS-R10J-YY	100	150	5	65	500	1200 min	0.46	400
0805AS-R12J-YY	120	150	5	52	250	1100 min	0.51	400
0805AS-R13J-YY	130	100	5	53	250	920 min	0.56	400
0805AS-R15J-YY	150	100	5	60	250	920 min	0.56	400
0805AS-R18J-YY	180	100	5	50	250	870 min	0.64	400
0805AS-R20J-YY	200	100	5	54	250	850 min	0.70	400
0805AS-R22J-YY	220	100	5	59	250	850 min	0.70	400
0805AS-R24J-YY	240	100	5	52	250	850 min	0.80	400
0805AS-R25J-YY	250	100	5	52	250	850 min	0.80	400
0805AS-R27J-YY	270	100	5	40	100	820 min	1.50	280
0805AS-R29J-YY	290	100	5	40	100	795 min	1.80	260
0805AS-R30J-YY	300	100	5	40	100	795 min	1.80	260
0805AS-R31J-YY	310	100	5	40	100	795 min	1.80	260
0805AS-R32J-YY	320	100	5	40	100	790 min	1.80	260
0805AS-R33J-YY	330	100	5	40	100	790 min	1.80	260
0805AS-R34J-YY	340	100	5	40	100	790 min	1.80	260
0805AS-R35J-YY	350	100	5	40	100	750 min	2.00	200
0805AS-R39J-YY	390	100	5	42	100	750 min	2.00	200
0805AS-R45J-YY	450	100	5	40	100	720 min	2.50	200
0805AS-R47J-YY	470	100	5	40	100	720 min	2.50	170
0805AS-R51J-YY	510	100	5	40	100	650 min	3.50	170
0805AS-R56J-YY	560	100	5	40	100	650 min	3.50	170
0805AS-R62J-YY	620	100	5	40	100	450 min	3.50	170
0805AS-R68J-YY	680	50	5	37	75	400 min	3.50	170
0805AS-R75K-YY	750	25	10	23	50	215 typ	2.35	180
0805AS-R80K-YY	800	25	10	23	50	215 typ	2.35	180
0805AS-R82K-YY	820	25	10	23	50	215 typ	2.35	180
0805AS-R91K-YY	910	25	10	23	50	215 typ	2.35	180
0805AS-1R0K-YY	1000	25	10	23	50	215 typ	2.35	180
0805AS-1R2K-YY	1200	7.9	10	15	50	150 typ	2.80	200
0805AS-1R5K-YY	1500	7.9	10	15	50	150 typ	3.00	200
0805AS-1R8K-YY	1800	7.9	10	15	50	80 typ	3.00	210
0805AS-2R0K-YY	2000	7.9	10	15	7.9	80 typ	3.50	170
0805AS-2R2K-YY	2200	7.9	10	15	7.9	80 typ	3.80	150
0805AS-2R4K-YY	2400	7.9	10	15	7.9	80 typ	3.80	120
0805AS-2R7K-YY	2700	7.9	10	15	7.9	80 typ	4.80	120
0805AS-3R0K-YY	3000	7.9	10	15	7.9	80 typ	5.00	120
0805AS-3R3K-YY	3300	7.9	10	15	7.9	80 typ	5.10	120
0805AS-3R6K-YY	3600	7.9	10	15	7.9	80 typ	5.50	100
0805AS-3R9K-YY	3900	7.9	10	15	7.9	80 typ	7.10	100
0805AS-4R3K-YY	4300	7.9	10	15	7.9	80 typ	7.20	100
0805AS-4R7K-YY	4700	7.9	10	15	7.9	50 typ	8.00	100
0805AS-5R6K-YY	5600	7.9	10	15	7.9	50 typ	9.50	90
* 0805AS-6R8K-YY	6800	7.9	10	15	7.9	55 typ	13.3	80
* 0805AS-8R2K-YY	8200	7.9	10	15	7.9	36 typ	14.0	60
* 0805AS-100K-YY	10000	7.9	10	15	7.9	35 typ	16.0	60

0805 ASM

Non-magnetic
Engineer's Kit: EK-0805ASM-X



Single layer (typ)

Part No	Inductance	f _L	Tol	Q	f _Q	SRF	DCR	Rated DC
	L (nH)	(MHz)	± (%)	min	(MHz)	(MHz)	max (Ω)	Current (mA)
0805ASM-2N7K-YY	2.7	250	10	80	1500	6000 min	0.08	600
0805ASM-3N3K-YY	3.3	250	10	50	1500	6000 min	0.08	600
0805ASM-5N6K-YY	5.6	250	10	53	1000	5500 min	0.11	600
0805ASM-5N8K-YY	5.8	250	10	50	1000	5500 min	0.11	600
0805ASM-6N8K-YY	6.8	250	10	50	1000	5500 min	0.11	600
0805ASM-8N0K-YY	8.0	250	10	51	1000	4700 min	0.12	600
0805ASM-8N2K-YY	8.2	250	10	50	1000	4700 min	0.12	600
0805ASM-010J-YY	10	250	5	43	1000	4300 min	0.13	600
0805ASM-012J-YY	12	250	5	50	500	4000 min	0.15	600
0805ASM-015J-YY	15	250	5	50	500	3400 min	0.17	600
0805ASM-018J-YY	18	250	5	53	500	3300 min	0.20	500
0805ASM-022J-YY	22	250	5	57	500	2600 min	0.22	500
0805ASM-027J-YY	27	250	5	55	500	2500 min	0.25	500
0805ASM-033J-YY	33	250	5	60	500	2050 min	0.27	500
0805ASM-036J-YY	36	250	5	60	500	2050 min	0.27	600
0805ASM-039J-YY	39	250	5	60	500	2000 min	0.29	500
0805ASM-047J-YY	47	200	5	65	500	1650 min	0.31	500
0805ASM-056J-YY	56	200	5	64	500	1550 min	0.34	500
0805ASM-068J-YY	68	200	5	65	500	1450 min	0.38	400
0805ASM-075J-YY	75	200	5	55	500	1300 min	0.42	400
0805ASM-082J-YY	82	150	5	67	500	1300 min	0.42	400
0805ASM-R10J-YY	100	150	5	65	500	1200 min	0.46	400
0805ASM-R12J-YY	120	150	5	52	250	1100 min	0.51	400
0805ASM-R13J-YY	130	100	5	53	250	920 min	0.56	400
0805ASM-R15J-YY	150	100	5	60	250	920 min	0.56	400
0805ASM-R18J-YY	180	100	5	50	250	870 min	0.64	400
0805ASM-R20J-YY	200	100	5	54	250	850 min	0.70	400
0805ASM-R22J-YY	220	100	5	59	250	850 min	0.70	400
0805ASM-R24J-YY	240	100	5	52	250	850 min	0.80	400
0805ASM-R25J-YY	250	100	5	52	250	850 min	0.80	400
0805ASM-R27J-YY	270	100	5	40	100	820 min	1.50	280
0805ASM-R29J-YY	290	100	5	40	100	795 min	1.80	260
0805ASM-R30J-YY	300	100	5	40	100	795 min	1.80	260
0805ASM-R33J-YY	330	100	5	40	100	790 min	1.80	260
0805ASM-R39J-YY	390	100	5	42	100	750 min	2.00	200
0805ASM-R47J-YY	470	100	5	40	100	720 min	2.50	170
0805ASM-R56J-YY	560	100	5	40	100	650 min	3.50	170
0805ASM-R68J-YY	680	50	5	37	75	450 min	3.50	170
0805ASM-R75J-YY	750	25	5	23	50	215 typ	2.35	180
0805ASM-R82J-YY	820	25	5	23	50	215 typ	2.35	180
0805ASM-1R0J-YY	1000	25	5	23	50	215 typ	2.35	180
0805ASM-2R2J-YY	2200	7.9	5	15	7.9	80 typ	3.80	150

Core Material: Ceramic

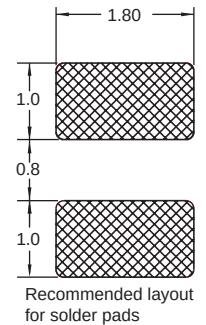
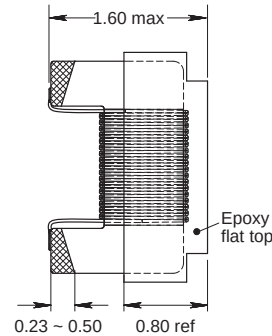
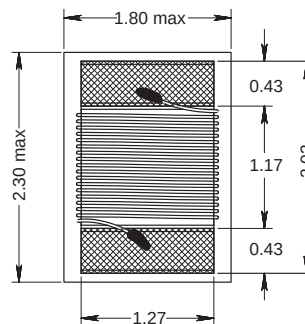
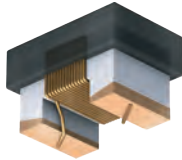
Revision date: 11 Jan 2022

SPQ: Taped / Reel 1000 [-08]
2500 [-01]
7500 [-04]

Remarks: - Unlisted inductance values available upon request.
- 2% and 5% tolerance available upon request.

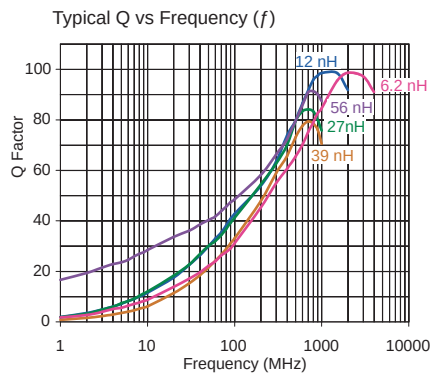
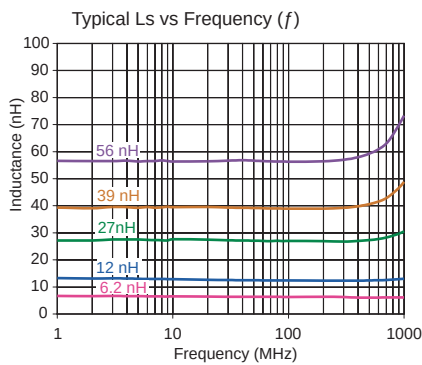
0805 AQ

Exceptionally High Q
Engineer's Kit: EK-0805AQ-X



(Wire wound - open)

Chip Inductors for RF Applications



Single layer (typ)

Part No	Inductance L (nH)	f _L (MHz)	Tol ± (%)	Q min	f _Q (MHz)	SRF min (MHz)	DCR max (Ω)	Rated DC Current (mA)
0805AQ-2N5K-YY	2.5	250	10	80	1500	>6000	0.020	1600
0805AQ-2N7K-YY	2.7	250	10	67	1500	>6000	0.020	1600
0805AQ-5N6K-YY	5.6	250	10	98	1500	>6000	0.035	1600
0805AQ-6N2K-YY	6.2	250	10	88	1000	4750	0.035	1600
0805AQ-8N7K-YY	8.7	250	10	50	1000	5300	0.045	1600
0805AQ-011J-YY	11	250	5	83	1000	3000	0.060	1600
0805AQ-012J-YY	12	250	5	80	1000	3000	0.045	1600
0805AQ-015J-YY	15	250	5	78	500	2950	0.060	1500
0805AQ-016J-YY	16	250	5	78	500	2950	0.060	1500
0805AQ-018J-YY	18	250	5	76	500	2550	0.060	1400
0805AQ-020J-YY	20	250	5	74	500	2050	0.055	1400
0805AQ-022J-YY	22	250	5	60	500	2050	0.070	1400
0805AQ-027J-YY	27	250	5	75	500	2000	0.070	1300
0805AQ-030J-YY	30	250	5	69	500	1950	0.095	1200
0805AQ-039J-YY	39	250	5	74	500	1600	0.110	1100
0805AQ-047J-YY	47	200	5	85	500	1400	0.095	1200
0805AQ-048J-YY	48	200	5	71	500	1400	0.095	1200
0805AQ-051J-YY	51	200	5	65	500	1400	0.120	1000
0805AQ-056J-YY	56	200	5	75	500	1400	0.120	1000

Core Material: Ceramic

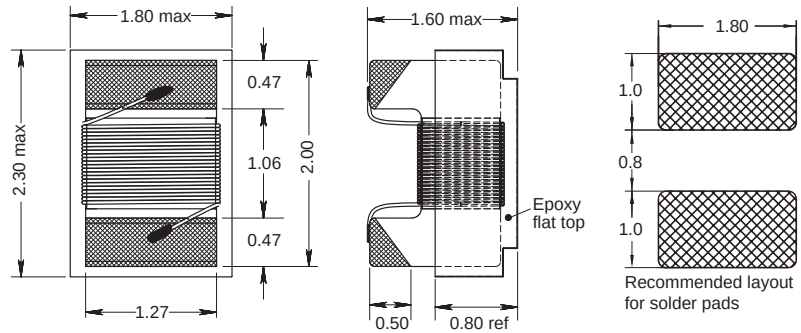
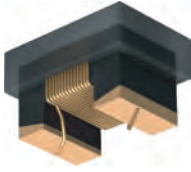
Revision date: 11 Jan 2022

SPQ: Taped / Reel 1000 [-08]
2500 [-01]
7500 [-04]

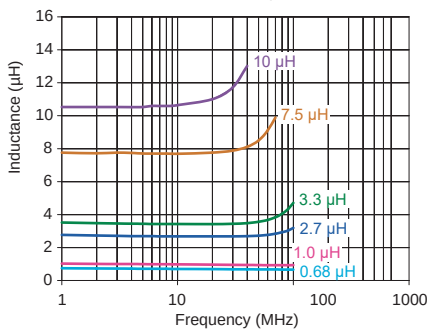
Remarks: - Unlisted inductance values available upon request.
- 2% and 5% tolerance available upon request.

0805 F

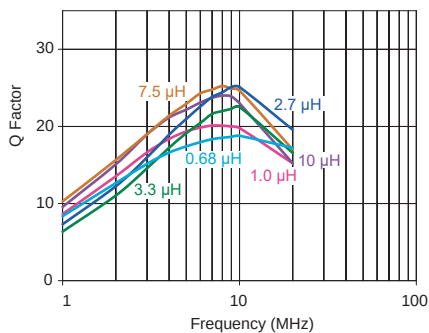
Engineer's Kit: EK-0805F-X



Typical L_s vs Frequency (f)



Typical Q vs Frequency (f)



Part No	Inductance L (μH)	f_L (MHz)	Tol ± (%)	Q min	f_Q (MHz)	SRF (MHz)	DCR max (Ω)	Rated DC Current (mA)
0805F-R68K-YY	0.68	25.2	10	18	7.9	350 min	0.50	450
0805F-R82K-YY	0.82	25.2	10	18	7.9	350 min	0.55	400
0805F-1R0K-YY	1.0	7.9	10	20	7.9	350 min	0.50	250
0805F-1R2K-YY	1.2	7.9	10	20	7.9	300 typ	0.65	220
0805F-1R5K-YY	1.5	7.9	10	20	7.9	250 typ	0.75	200
0805F-1R8K-YY	1.8	7.9	10	20	7.9	200 typ	0.85	190
0805F-2R2K-YY	2.2	7.9	10	20	7.9	200 typ	1.70	130
0805F-2R7K-YY	2.7	7.9	10	20	7.9	200 typ	2.0	120
0805F-3R3K-YY	3.3	7.9	10	20	7.9	200 typ	3.3	100
0805F-3R9K-YY	3.9	7.9	10	20	7.9	150 typ	3.6	95
0805F-4R7K-YY	4.7	7.9	10	20	7.9	150 typ	3.8	90
0805F-5R6K-YY	5.6	7.9	10	20	7.9	80 typ	2.8	175
0805F-6R2K-YY	6.2	7.9	10	20	7.9	70 typ	3.0	165
0805F-6R8K-YY	6.8	7.9	10	20	7.9	65 typ	3.1	160
0805F-7R5K-YY	7.5	7.9	10	20	7.9	60 typ	3.4	160
0805F-8R2K-YY	8.2	7.9	10	20	7.9	55 typ	3.7	160
0805F-9R1K-YY	9.1	7.9	10	20	7.9	50 typ	3.7	150
0805F-100K-YY	10	7.9	10	20	7.9	45 typ	3.8	150
0805F-120K-YY	12	7.9	10	18	7.9	25 typ	4.2	150
0805F-150K-YY	15	7.9	10	18	7.9	25 typ	5.0	150
0805F-220K-YY	22	7.9	10	15	7.9	30 typ	6.0	97

Core Material: Ferrite

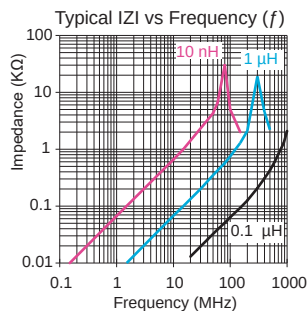
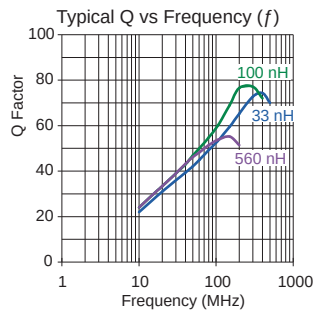
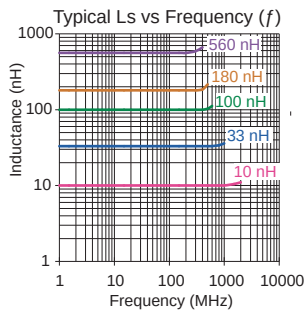
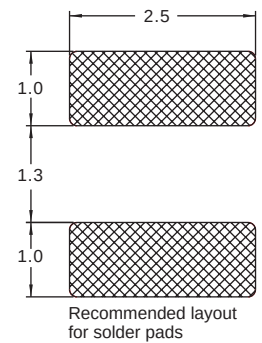
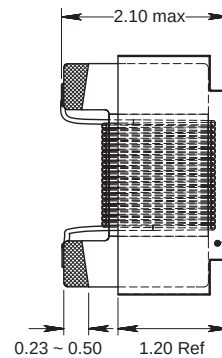
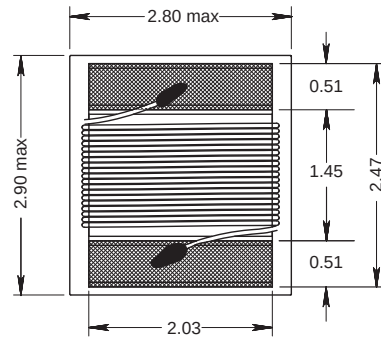
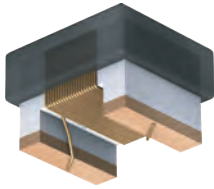
Revision date: 11 Jan 2022

SPQ: Taped / Reel 1000 [-08]
2500 [-01]
7500 [-04]

Remarks: - Unlisted inductance values available upon request.
- 2% and 5% tolerance available upon request.

1008 AS

Engineer's Kit: EK-1008AS-X



Single layer (typ)

Part No	Inductance L (nH)	f _L (MHz)	Tol ± (%)	Q min	f _Q (MHz)	SRF (MHz)	DCR max (Ω)	Rated DC Current (mA)
1008AS-4N7J-YY	4.7	50	5	17	500	6000 min	0.15	600
1008AS-8N2J-YY	8.2	50	5	70	1000	5000 min	0.08	600
1008AS-010J-YY	10	50	5	50	500	4100 min	0.08	1000
1008AS-012J-YY	12	50	5	53	500	3300 min	0.09	1000
1008AS-015J-YY	15	50	5	70	500	2500 min	0.10	1000
1008AS-018J-YY	18	50	5	50	350	2500 min	0.11	1000
1008AS-022J-YY	22	50	5	55	350	2400 min	0.12	1000
1008AS-027J-YY	27	50	5	58	350	1600 min	0.13	1000
1008AS-030J-YY	30	50	5	65	350	1600 min	0.14	1000
1008AS-033J-YY	33	50	5	65	350	1600 min	0.14	1000
1008AS-039J-YY	39	50	5	60	350	1500 min	0.15	1000
1008AS-047J-YY	47	50	5	65	350	1500 min	0.16	1000
1008AS-056J-YY	56	50	5	65	350	1300 min	0.18	1000
1008AS-068J-YY	68	50	5	67	350	1300 min	0.20	1000
1008AS-082J-YY	82	50	5	63	350	1000 min	0.22	1000
1008AS-090J-YY	90	50	5	60	350	1000 min	0.56	650
1008AS-R10J-YY	100	25	5	63	350	1000 min	0.56	650
1008AS-R12J-YY	120	25	5	60	350	950 min	0.63	650
1008AS-R15J-YY	150	25	5	50	100	850 min	0.70	620
1008AS-R18J-YY	180	25	5	45	100	750 min	0.77	620
1008AS-R22J-YY	220	25	5	46	100	700 min	0.84	620
1008AS-R24J-YY	240	25	5	46	100	600 min	0.84	600
1008AS-R27J-YY	270	25	5	48	100	600 min	0.91	500
1008AS-R30J-YY	300	25	5	45	100	600 min	0.91	500
1008AS-R33J-YY	330	25	5	51	100	570 min	1.05	470
1008AS-R39J-YY	390	25	5	47	100	500 min	1.12	470
1008AS-R47J-YY	470	25	5	54	100	450 min	1.19	470
1008AS-R51J-YY	510	25	5	51	100	415 min	1.33	400
1008AS-R56J-YY	560	25	5	56	100	415 min	1.33	400
1008AS-R62J-YY	620	25	5	49	100	375 min	1.40	400
1008AS-R68J-YY	680	25	5	46	100	375 min	1.47	400
1008AS-R75J-YY	750	25	5	46	100	360 min	1.54	400
1008AS-R82J-YY	820	25	5	52	100	350 min	1.61	400
1008AS-R91K-YY	910	25	10	37	50	320 typ	1.68	380
1008AS-1R0K-YY	1000	25	10	36	50	290 typ	1.75	370
1008AS-1R1K-YY	1100	25	10	35	50	250 typ	1.85	350
1008AS-1R2K-YY	1200	7.9	10	35	50	250 typ	2.00	310
1008AS-1R4K-YY	1400	7.9	10	33	50	200 typ	2.30	330
1008AS-1R5K-YY	1500	7.9	10	35	50	200 typ	2.30	330
1008AS-1R8K-YY	1800	7.9	10	34	50	160 typ	2.60	300
1008AS-2R2K-YY	2200	7.9	10	28	50	160 typ	2.80	280
1008AS-2R7K-YY	2700	7.9	10	23	25	140 typ	4.80	120
1008AS-3R3K-YY	3300	7.9	10	22	25	110 typ	5.10	120
1008AS-3R9K-YY	3900	7.9	10	27	25	100 typ	5.40	110
1008AS-4R7K-YY	4700	7.9	10	20	25	65 typ	6.00	110
1008AS-5R0K-YY	5000	7.9	10	20	25	60 typ	6.60	110
1008AS-5R6K-YY	5600	7.9	10	22	7.9	55 typ	6.50	110
1008AS-6R8K-YY	6800	7.9	10	22	7.9	48 typ	7.50	110
1008AS-8R2K-YY	8200	7.9	10	24	7.9	44 typ	8.40	110
1008AS-100K-YY	10000	7.9	10	20	7.9	40 typ	8.40	110
1008AS-120K-YY	12000	7.9	10	20	7.9	30 typ	11.5	136

Core Material: Ceramic

SPQ: Taped / Reel 1000 [-08]
2000 [-01]
7500 [-04]

Remarks:

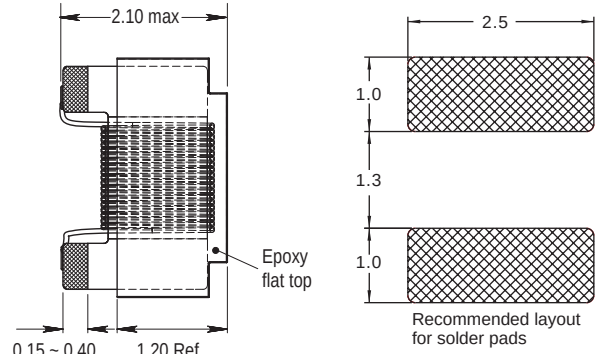
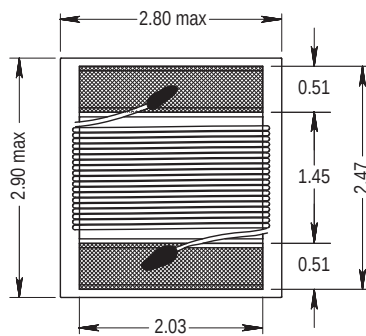
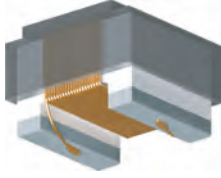
- Unlisted inductance values available upon request.
- 2% and 5% tolerance available upon request.

Revision date: 11 Jan 2022

1008 ASM

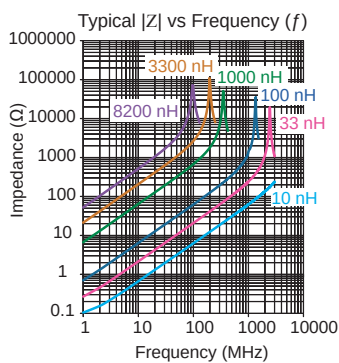
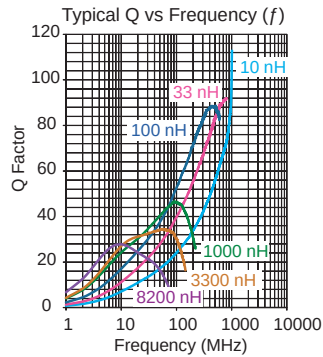
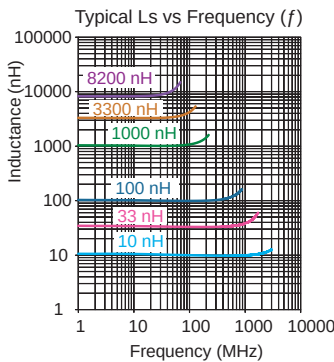
Non-magnetic

Engineer's Kit : EK-1008ASM-X



(Wire wound - open)

Chip Inductors for RF / Medical Applications



Single layer (typ)

Part No	Inductance L (nH)	f _L (MHz)	Tol ± (%)	Q min	f _Q (MHz)	SRF (MHz)	DCR max (Ω)	Rated DC Current (mA)
1008ASM-010J-YY	10	50	5	50	500	4100 min	0.08	1000
1008ASM-012J-YY	12	50	5	53	500	3300 min	0.09	1000
1008ASM-015J-YY	15	50	5	70	500	2500 min	0.10	1000
1008ASM-018J-YY	18	50	5	50	350	2500 min	0.11	1000
1008ASM-022J-YY	22	50	5	55	350	2400 min	0.12	1000
1008ASM-024J-YY	24	50	5	50	350	1600 min	0.13	1000
1008ASM-027J-YY	27	50	5	58	350	1600 min	0.13	1000
1008ASM-033J-YY	33	50	5	65	350	1600 min	0.14	1000
1008ASM-039J-YY	39	50	5	60	350	1500 min	0.15	1000
1008ASM-047J-YY	47	50	5	65	350	1500 min	0.16	1000
1008ASM-056J-YY	56	50	5	65	350	1300 min	0.18	1000
1008ASM-068J-YY	68	50	5	67	350	1300 min	0.20	1000
1008ASM-082J-YY	82	50	5	63	350	1000 min	0.22	1000
1008ASM-R10J-YY	100	25	5	63	350	1000 min	0.56	650
1008ASM-R12J-YY	120	25	5	60	350	950 min	0.63	650
1008ASM-R15J-YY	150	25	5	50	100	850 min	0.70	620
1008ASM-R18J-YY	180	25	5	45	100	750 min	0.77	620
1008ASM-R22J-YY	220	25	5	46	100	700 min	0.84	620
1008ASM-R27J-YY	270	25	5	48	100	600 min	0.91	600
1008ASM-R33J-YY	330	25	5	51	100	570 min	1.05	470
1008ASM-R39J-YY	390	25	5	47	100	500 min	1.12	470
1008ASM-R47J-YY	470	25	5	54	100	450 min	1.19	470
1008ASM-R56J-YY	560	25	5	56	100	415 min	1.33	400
1008ASM-R62J-YY	620	25	5	49	100	375 min	1.40	400
1008ASM-R68J-YY	680	25	5	46	100	375 min	1.47	400
1008ASM-R75J-YY	750	25	5	46	100	360 min	1.54	400
1008ASM-R82J-YY	820	25	5	52	100	350 min	1.61	400
1008ASM-R91K-YY	910	25	10	37	100	320 typ	1.68	380
1008ASM-1R0K-YY	1000	25	10	36	100	290 typ	1.75	370
1008ASM-1R2K-YY	1200	7.9	10	35	50	250 typ	2.00	310
1008ASM-1R5K-YY	1500	7.9	10	35	50	200 typ	2.30	330
1008ASM-1R8K-YY	1800	7.9	10	34	50	160 typ	2.60	300
1008ASM-2R2K-YY	2200	7.9	10	28	50	160 typ	2.80	280
1008ASM-2R7K-YY	2700	7.9	10	23	25	140 typ	4.80	120
1008ASM-3R3K-YY	3300	7.9	10	22	25	110 typ	5.10	120
1008ASM-3R9K-YY	3900	7.9	10	27	25	100 typ	5.40	110
1008ASM-4R7K-YY	4700	7.9	10	20	25	65 typ	6.00	110
1008ASM-5R6K-YY	5600	7.9	10	22	7.9	55 typ	6.50	110
1008ASM-6R8K-YY	6800	7.9	10	22	7.9	48 typ	7.50	110
1008ASM-8R2K-YY	8200	7.9	10	24	7.9	44 typ	8.40	110

Core Material: Ceramic

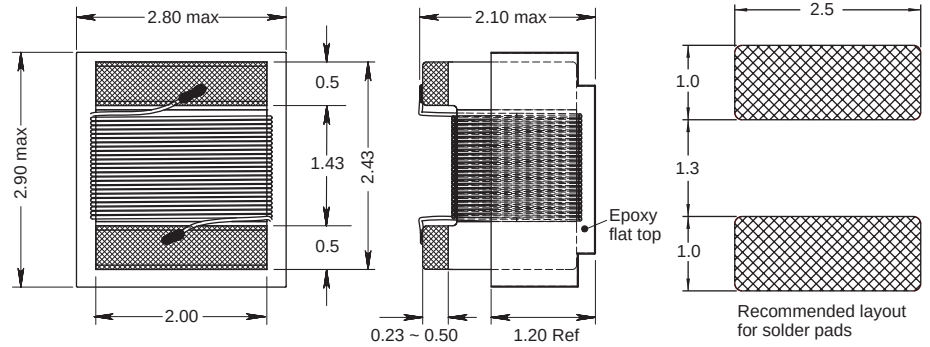
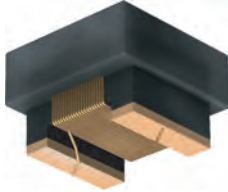
Revision date: 11 Jan 2022

SPQ: Taped / Reel 1000 [-08]
2000 [-01]
7500 [-04]

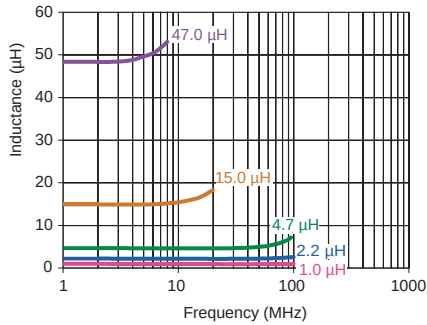
Remarks: - Unlisted inductance values available upon request.
- 2% and 5% tolerance available upon request.

1008 F

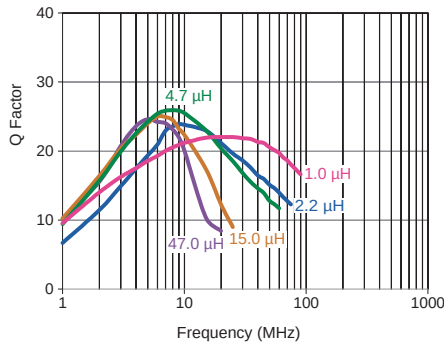
Engineer's Kit: EK-1008F-X



Typical L_s vs Frequency (f)



Typical Q vs Frequency (f)



Part No	Inductance L (μH)	f_L (MHz)	Tol ± (%)	Q min	f_Q (MHz)	SRF (MHz)	DCR max (Ω)	Rated DC Current (mA)
1008F-1R0K-YY	1.0	7.9	10	15	7.9	190 min	0.32	500
1008F-1R2K-YY	1.2	7.9	10	25	7.9	210 min	0.68	650
1008F-1R5K-YY	1.5	7.9	10	25	7.9	190 min	0.76	630
1008F-1R8K-YY	1.8	7.9	10	25	7.9	170 min	0.84	600
1008F-2R2K-YY	2.2	7.9	10	25	7.9	150 min	1.10	520
1008F-2R7K-YY	2.7	7.9	10	25	7.9	135 min	1.28	490
1008F-3R3K-YY	3.3	7.9	10	25	7.9	120 min	1.46	450
1008F-3R9K-YY	3.9	7.9	10	25	7.9	105 typ	1.56	420
1008F-4R7K-YY	4.7	7.9	10	25	7.9	90 typ	1.68	400
1008F-5R6K-YY	5.6	7.9	10	25	7.9	80 typ	1.82	380
1008F-6R8K-YY	6.8	7.9	10	25	7.9	70 typ	2.00	360
1008F-8R2K-YY	8.2	7.9	10	25	7.9	65 typ	2.65	330
1008F-100K-YY	10	7.9	10	25	7.9	60 typ	2.95	300
1008F-120K-YY	12	2.5	10	24	7.9	40 typ	4.80	280
1008F-150K-YY	15	2.5	10	23	7.9	35 typ	5.00	260
1008F-180K-YY	18	2.5	10	23	7.9	35 typ	5.80	220
1008F-220K-YY	22	2.5	10	22	7.9	30 typ	6.80	200
1008F-240K-YY	24	2.5	10	22	7.9	30 typ	6.80	200
1008F-270K-YY	27	2.5	10	23	7.9	30 typ	7.70	190
1008F-330K-YY	33	2.5	10	22	7.9	27 typ	8.90	180
1008F-390K-YY	39	2.5	10	20	7.9	20 typ	9.20	190
1008F-470K-YY	47	2.5	10	21	7.9	20 typ	11.0	150
1008F-820K-YY	82	2.5	10	13	7.9	14 typ	22.0	60
1008F-101K-YY	100	2.5	10	8	7.9	10 typ	25.0	55

Core Material: Ferrite

Revision date: 07 Jun 2022

SPQ: Taped / Reel 1000 [-08]
2000 [-01]
7500 [-04]

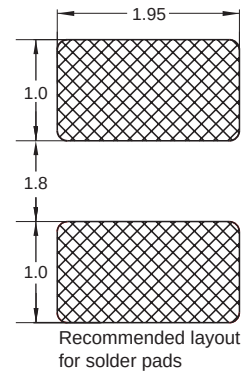
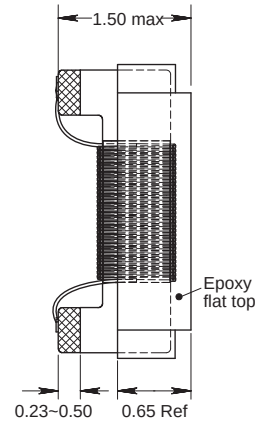
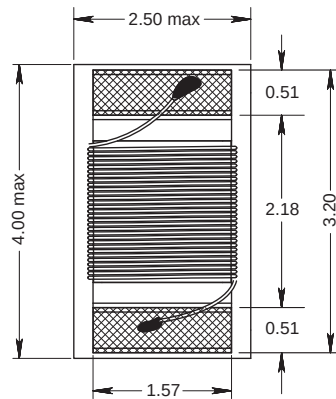
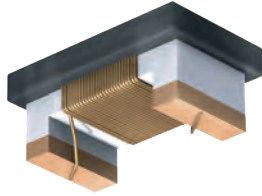
Remarks: - Unlisted inductance values available upon request.
- 5% tolerance available upon request.

(Wire wound - open)

Chip Inductors for RF Applications

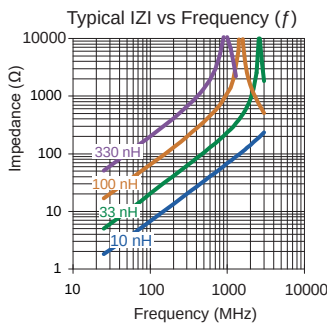
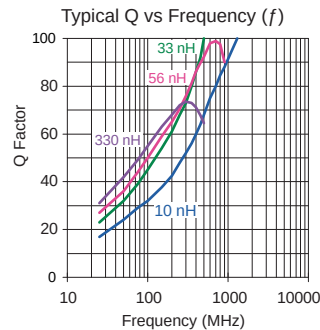
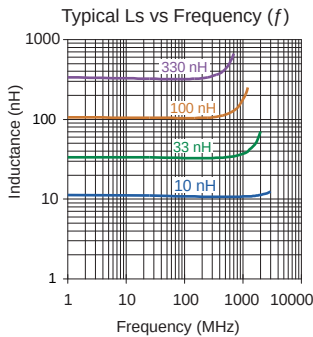
1206 AS

Engineer's Kit: EK-1206AS-X



(Wire wound - open)

Chip Inductors for RF Applications



Single layer (typ)

Part No	Inductance L (nH)	fL (MHz)	Tol ± (%)	Q min	fQ (MHz)	SRF (MHz)	DCR max (Ω)	Rated DC Current max (mA)
1206AS-3N3M-YY	3.3	100	20	30	300	6000 min	0.05	1000
1206AS-6N8K-YY	6.8	100	10	37	300	5500 min	0.07	1000
1206AS-010J-YY	10	100	5	40	300	4000 min	0.08	1000
1206AS-012J-YY	12	100	5	51	300	3200 min	0.08	1000
1206AS-015J-YY	15	100	5	51	300	3200 min	0.10	1000
1206AS-018J-YY	18	100	5	51	300	2800 min	0.10	1000
1206AS-022J-YY	22	100	5	52	300	2200 min	0.10	1000
1206AS-027J-YY	27	100	5	52	300	1800 min	0.11	1000
1206AS-030J-YY	30	100	5	52	300	1800 min	0.11	1000
1206AS-033J-YY	33	100	5	56	300	1800 min	0.11	1000
1206AS-039J-YY	39	100	5	64	300	1800 min	0.12	1000
1206AS-047J-YY	47	100	5	64	300	1500 min	0.13	1000
1206AS-056J-YY	56	100	5	64	300	1450 min	0.14	1000
1206AS-068J-YY	68	100	5	61	300	1200 min	0.26	900
1206AS-082J-YY	82	100	5	66	300	1200 min	0.21	900
1206AS-R10J-YY	100	100	5	55	300	1100 min	0.26	850
1206AS-R12J-YY	120	100	5	75	300	1100 min	0.26	800
1206AS-R13J-YY	130	100	5	75	300	950 min	0.31	750
1206AS-R15J-YY	150	100	5	65	300	950 min	0.31	750
1206AS-R18J-YY	180	50	5	75	300	900 min	0.43	700
1206AS-R21J-YY	210	50	5	75	300	760 min	0.50	670
1206AS-R22J-YY	220	50	5	75	300	760 min	0.50	670
1206AS-R24J-YY	240	50	5	57	300	730 min	0.56	630
1206AS-R27J-YY	270	50	5	57	300	730 min	0.56	630
1206AS-R29J-YY	290	50	5	57	150	650 min	0.62	590
1206AS-R33J-YY	330	50	5	55	150	650 min	0.62	590
1206AS-R39J-YY	390	50	5	55	150	600 min	0.75	530
1206AS-R47J-YY	470	50	5	52	150	550 min	1.30	490
1206AS-R50K-YY	500	50	10	45	150	470 typ	1.30	460
1206AS-R56K-YY	560	50	10	45	150	470 typ	1.34	460
1206AS-R68K-YY	680	35	10	45	150	450 typ	1.58	430
1206AS-R82K-YY	820	35	10	45	150	420 typ	1.82	400
1206AS-R91K-YY	910	35	10	45	150	416 typ	1.87	300
1206AS-1R0K-YY	1000	35	10	45	150	400 typ	2.80	320
1206AS-1R2K-YY	1200	35	10	45	150	380 typ	3.20	300
1206AS-2R2K-YY	2200	35	10	32	150	160 typ	4.50	280
1206AS-2R7K-YY	2700	35	10	25	50	160 typ	5.50	145
1206AS-3R3K-YY	3300	35	10	20	50	140 typ	6.50	130
1206AS-4R7K-YY	4700	35	10	20	50	120 typ	7.20	120

Core Material: Ceramic

Revision date: 05 Jan 2023

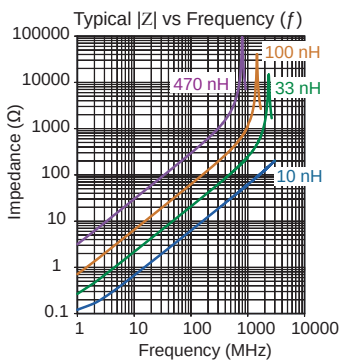
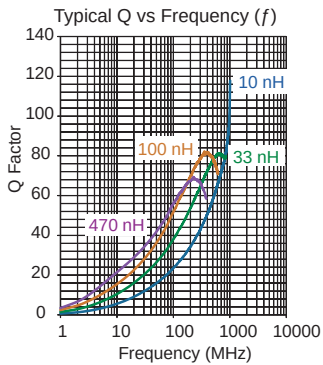
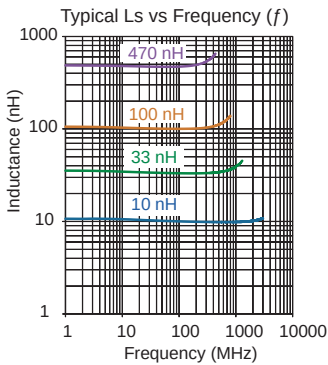
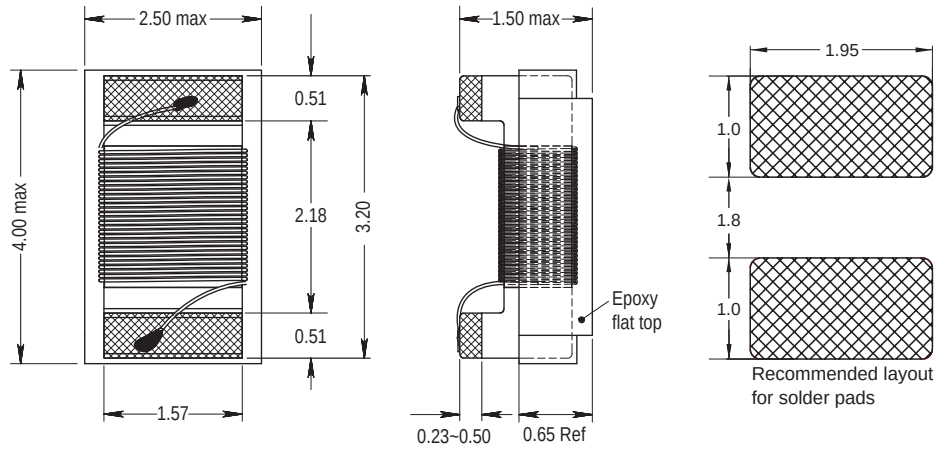
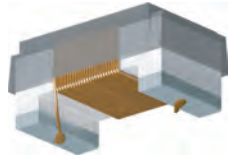
SPQ: Taped / Reel 1000 [-08]
2000 [-01]
7500 [-04]

Remarks: - Unlisted inductance values available upon request.
- 2% and 5% tolerance available upon request.

1206 ASM

Non-magnetic

Engineer's Kit: EK-1206ASM-X



Single layer (typ)

Part No	Inductance L (nH)	f_L (MHz)	Tol ± (%)	Q min	f_Q (MHz)	SRF (MHz)	DCR max (Ω)	Rated DC Current max (mA)
1206ASM-3N3M-YY	3.3	100	20	30	300	6000 min	0.05	1000
1206ASM-6N8K-YY	6.8	100	10	37	300	5500 min	0.07	1000
1206ASM-010J-YY	10	100	5	40	300	4000 min	0.08	1000
1206ASM-012J-YY	12	100	5	51	300	3200 min	0.08	1000
1206ASM-015J-YY	15	100	5	51	300	3200 min	0.10	1000
1206ASM-018J-YY	18	100	5	51	300	2800 min	0.10	1000
1206ASM-022J-YY	22	100	5	52	300	2200 min	0.10	1000
1206ASM-027J-YY	27	100	5	52	300	1800 min	0.11	1000
1206ASM-033J-YY	33	100	5	56	300	1800 min	0.11	1000
1206ASM-039J-YY	39	100	5	64	300	1800 min	0.12	1000
1206ASM-047J-YY	47	100	5	64	300	1500 min	0.13	1000
1206ASM-056J-YY	56	100	5	64	300	1450 min	0.14	1000
1206ASM-068J-YY	68	100	5	61	300	1200 min	0.26	900
1206ASM-082J-YY	82	100	5	66	300	1200 min	0.21	900
1206ASM-R10J-YY	100	100	5	55	300	1100 min	0.26	850
1206ASM-R12J-YY	120	100	5	75	300	1100 min	0.26	800
1206ASM-R13J-YY	130	100	5	75	300	950 min	0.31	750
1206ASM-R15J-YY	150	100	5	65	300	950 min	0.31	750
1206ASM-R18J-YY	180	50	5	75	300	900 min	0.43	700
1206ASM-R22J-YY	220	50	5	75	300	760 min	0.50	670
1206ASM-R27J-YY	270	50	5	57	300	730 min	0.56	630
1206ASM-R29J-YY	290	50	5	57	150	650 min	0.62	590
1206ASM-R33J-YY	330	50	5	55	150	650 min	0.62	590
1206ASM-R39J-YY	390	50	5	55	150	600 min	0.75	530
1206ASM-R47J-YY	470	50	5	52	150	550 min	1.30	490

Core Material: Ceramic

Revision date: 11 Jan 2022

SPQ: Taped / Reel 1000 [-08]
2000 [-01]
7500 [-04]

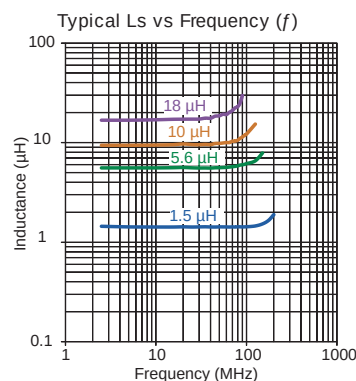
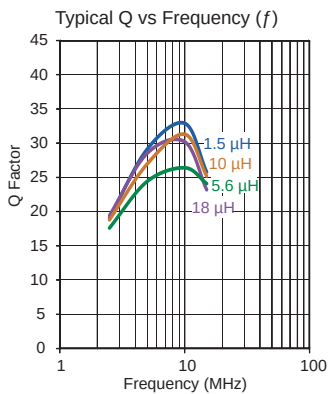
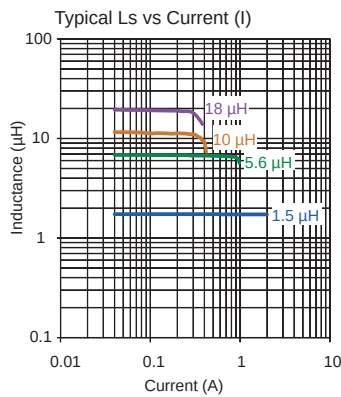
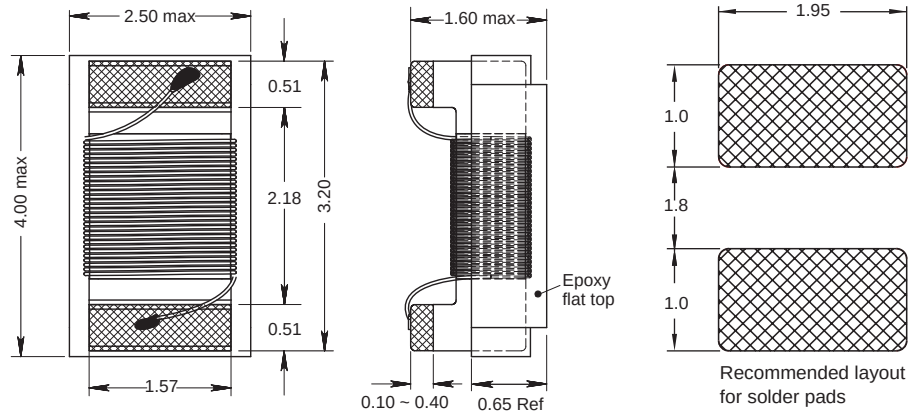
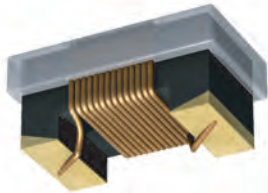
Remarks: - Unlisted inductance values available upon request.
- 2% and 5% tolerance available upon request.

(Wire wound - open)

Chip Inductors for RF / Medical Applications

1206 F

Engineer's Kit : EK-1206F-X



Single layer (typ)

Part No	Inductance L (μH)	f_L (MHz)	Tol ± (%)	Q min	f_Q (MHz)	SRF (MHz)	DCR max (Ω)	Rated DC Current (mA)
1206F-1R0K-YY	1.0	7.9	10	25	7.9	300 min	0.98	350
1206F-1R5K-YY	1.5	7.9	10	25	7.9	240 min	1.2	320
1206F-1R8K-YY	1.8	7.9	10	25	7.9	200 min	1.2	320
1206F-2R2K-YY	2.2	7.9	10	25	7.9	200 min	1.3	300
1206F-2R7K-YY	2.7	7.9	10	25	7.9	190 min	1.4	300
1206F-3R3K-YY	3.3	7.9	10	25	7.9	160 min	1.5	280
1206F-3R9K-YY	3.9	7.9	10	25	7.9	160 min	1.9	280
1206F-4R7K-YY	4.7	7.9	10	25	7.9	140 typ	2.2	280
1206F-5R6K-YY	5.6	7.9	10	25	7.9	120 typ	2.4	260
1206F-6R8K-YY	6.8	7.9	10	25	7.9	110 typ	2.8	240
1206F-8R2K-YY	8.2	7.9	10	25	7.9	100 typ	3.1	220
1206F-100K-YY	10	7.9	10	25	7.9	100 typ	4.0	200
1206F-120K-YY	12	7.9	10	18	7.9	90 typ	4.6	200
* 1206F-150K-YY	15	2.5	10	16	2.5	75 typ	8.2	160
* 1206F-180K-YY	18	2.5	10	16	2.5	75 typ	9.0	130
1206F-470K-YY	47	2.5	10	18	2.5	25 typ	11.1	80
* 1206F-101K-YY	100	2.5	10	18	2.5	13 typ	21	80

Core Material: Ferrite

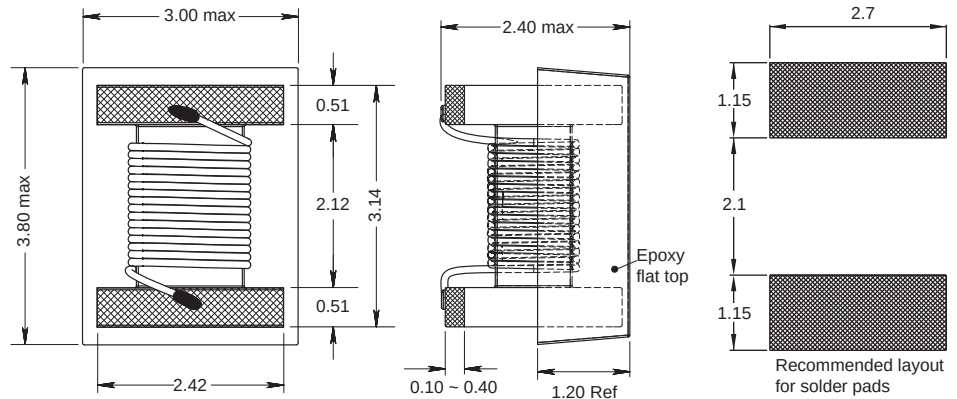
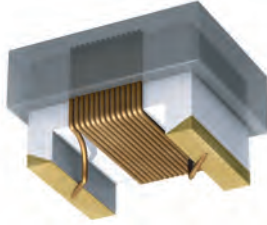
Revision date: 11 Jan 2022

SPQ: Taped / Reel 1000 [-08]
2000 [-01]
7500 [-04]

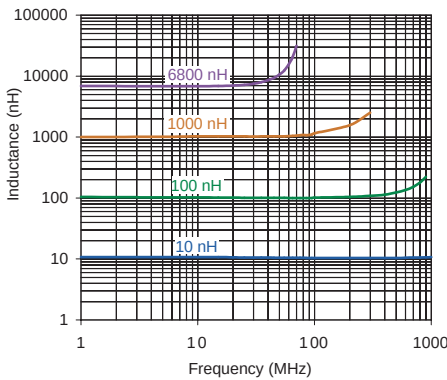
Remarks: - Unlisted inductance values available upon request.
- 2% and 5% available upon request.
- All are AEC-Q200 Standard approved EXCEPT *.

1210 AS

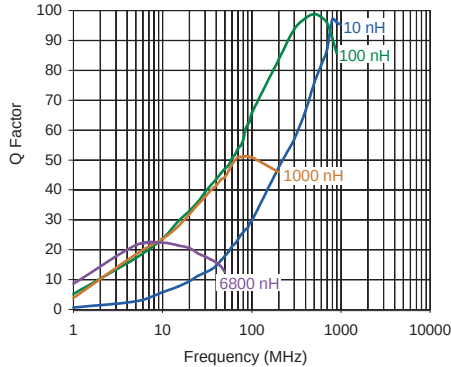
Engineer's Kit: EK-1210AS-X



Typical Ls vs Frequency (f)



Typical Q vs Frequency (f)



Single layer (typ)

Part No	Inductance L (nH)	f _L (MHz)	Tol ± (%)	Q min	f _Q (MHz)	SRF (MHz)	DCR max (Ω)	Rated DC Current max (mA)
1210AS-010K-YY	10	50	10	50	500	4100 min	0.08	1000
1210AS-012K-YY	12	50	10	50	500	2400 min	0.09	1000
1210AS-015K-YY	15	50	10	50	500	2400 min	0.10	1000
1210AS-018K-YY	18	50	10	50	350	2400 min	0.11	1000
1210AS-022K-YY	22	50	10	55	350	2400 min	0.12	1000
1210AS-027J-YY	27	50	5	55	350	1800 min	0.13	1000
1210AS-033J-YY	33	50	5	60	350	1600 min	0.14	1000
1210AS-039J-YY	39	50	5	60	350	1500 min	0.15	1000
1210AS-047J-YY	47	50	5	65	350	1200 min	0.16	1000
1210AS-056J-YY	56	50	5	65	350	1200 min	0.16	1000
1210AS-068J-YY	68	50	5	65	350	1000 min	0.20	1000
1210AS-082J-YY	82	50	5	60	350	1000 min	0.22	1000
1210AS-R10J-YY	100	25	5	60	350	1000 min	0.24	980
1210AS-R12J-YY	120	25	5	60	350	850 min	0.26	920
1210AS-R15J-YY	150	25	5	50	100	750 min	0.29	870
1210AS-R18J-YY	180	25	5	50	100	700 min	0.31	830
1210AS-R22J-YY	220	25	5	50	100	650 min	0.35	790
1210AS-R27J-YY	270	25	5	45	100	600 min	0.42	730
1210AS-R33J-YY	330	25	5	45	100	500 min	0.49	680
1210AS-R37J-YY	370	25	5	45	100	500 min	0.52	610
1210AS-R39J-YY	390	25	5	45	100	500 min	0.54	640
1210AS-R47J-YY	470	25	5	45	100	450 min	0.60	610
1210AS-R56J-YY	560	25	5	45	100	415 min	1.00	460
1210AS-R68J-YY	680	25	5	45	100	350 min	1.15	420
1210AS-R82J-YY	820	25	5	45	100	350 min	1.93	350
1210AS-1R0K-YY	1000	25	10	35	50	290 typ	2.16	330
1210AS-1R2K-YY	1200	7.9	10	35	50	250 typ	2.38	310
1210AS-1R5K-YY	1500	7.9	10	25	50	200 typ	2.64	300
1210AS-1R8K-YY	1800	7.9	10	25	50	160 typ	2.76	290
1210AS-2R2K-YY	2200	7.9	10	25	50	160 typ	2.98	280
1210AS-2R7K-YY	2700	7.9	10	25	25	140 typ	3.30	260
1210AS-3R3K-YY	3300	7.9	10	25	25	120 typ	3.66	250
1210AS-3R9K-YY	3900	7.9	10	20	25	100 typ	4.00	240
1210AS-4R7K-YY	4700	7.9	10	20	25	90 typ	4.30	230
1210AS-5R6K-YY	5600	7.9	10	15	25	60 typ	4.30	230
1210AS-6R8K-YY	6800	7.9	10	15	25	60 typ	5.20	210
1210AS-8R2K-YY	8200	7.9	10	17	7.9	45 typ	5.90	168
1210AS-100K-YY	10000	7.9	10	17	7.9	38 typ	6.00	160
1210AS-150K-YY	15000	7.9	10	15	7.9	20 typ	7.00	120

Core Material: Ceramic

Revision date: 11 Jan 2022

SPQ: Taped / Reel 800 [-01]
3000 [-04]

Remarks: - Unlisted inductance values available upon request.
- 2% and 5% tolerance available upon request.

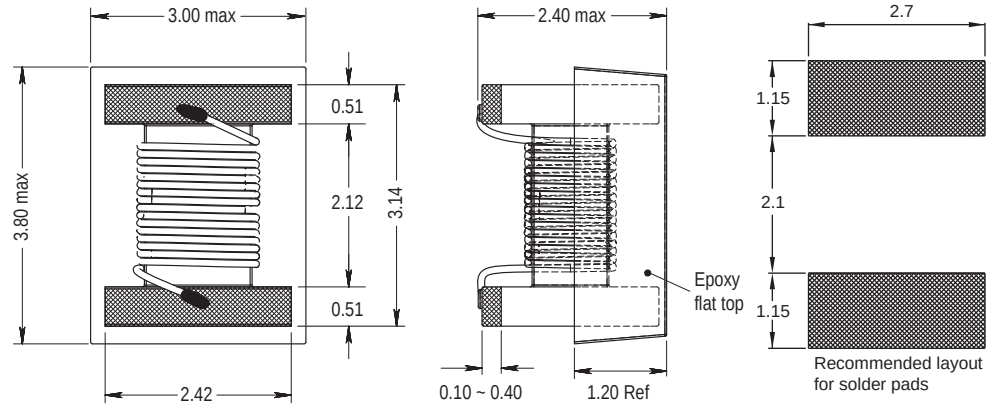
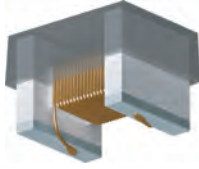
(Wire wound - open)

Chip Inductors for RF Applications

1210 ASM

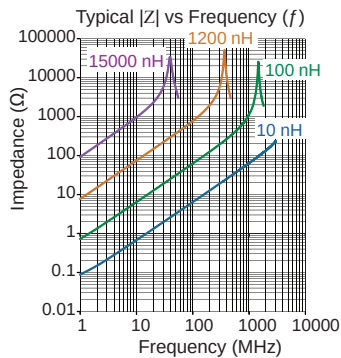
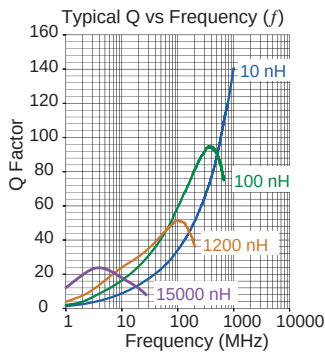
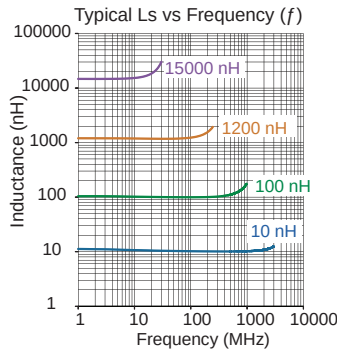
Non-magnetic

Engineer's Kit: EK-1210ASM-X



(Wire wound - open)

Chip Inductors for RF / Medical Applications



Single layer (typ)

Part No	Inductance L (nH)	f_L (MHz)	Tol ± (%)	Q min	f_Q (MHz)	SRF (MHz)	DCR max (Ω)	Rated DC Current max (mA)
1210ASM-010K-YY	10	50	10	50	500	4100 min	0.08	1000
1210ASM-012K-YY	12	50	10	50	500	2400 min	0.09	1000
1210ASM-015K-YY	15	50	10	50	500	2400 min	0.10	1000
1210ASM-018K-YY	18	50	10	50	350	2400 min	0.11	1000
1210ASM-022K-YY	22	50	10	55	350	2400 min	0.12	1000
1210ASM-027J-YY	27	50	5	55	350	1800 min	0.13	1000
1210ASM-033J-YY	33	50	5	60	350	1600 min	0.14	1000
1210ASM-039J-YY	39	50	5	60	350	1500 min	0.15	1000
1210ASM-047J-YY	47	50	5	65	350	1200 min	0.16	1000
1210ASM-056J-YY	56	50	5	65	350	1200 min	0.16	1000
1210ASM-068J-YY	68	50	5	65	350	1000 min	0.20	1000
1210ASM-082J-YY	82	50	5	60	350	1000 min	0.22	1000
1210ASM-R10J-YY	100	25	5	60	350	1000 min	0.24	980
1210ASM-R12J-YY	120	25	5	60	350	850 min	0.26	920
1210ASM-R15J-YY	150	25	5	50	100	750 min	0.29	870
1210ASM-R18J-YY	180	25	5	50	100	700 min	0.31	830
1210ASM-R22J-YY	220	25	5	50	100	650 min	0.35	790
1210ASM-R27J-YY	270	25	5	45	100	600 min	0.42	730
1210ASM-R33J-YY	330	25	5	45	100	500 min	0.49	680
1210ASM-R39J-YY	390	25	5	45	100	500 min	0.54	640
1210ASM-R47J-YY	470	25	5	45	100	450 min	0.60	610
1210ASM-R56J-YY	560	25	5	45	100	415 min	1.00	460
1210ASM-R68J-YY	680	25	5	45	100	350 min	1.15	420
1210ASM-R82J-YY	820	25	5	45	100	350 min	1.93	350
1210ASM-1R0K-YY	1000	25	10	35	50	290 typ	2.16	330
1210ASM-1R2K-YY	1200	7.9	10	35	50	250 typ	2.38	310
1210ASM-1R5K-YY	1500	7.9	10	25	50	200 typ	2.64	300
1210ASM-1R8K-YY	1800	7.9	10	25	50	160 typ	2.76	290
1210ASM-2R2K-YY	2200	7.9	10	25	50	160 typ	2.98	280
1210ASM-2R7K-YY	2700	7.9	10	25	25	140 typ	3.30	260
1210ASM-3R3K-YY	3300	7.9	10	25	25	120 typ	3.66	250
1210ASM-3R9K-YY	3900	7.9	10	20	25	100 typ	4.00	240
1210ASM-4R7K-YY	4700	7.9	10	20	25	90 typ	4.30	230
1210ASM-5R6K-YY	5600	7.9	10	15	25	60 typ	4.30	230
1210ASM-6R8K-YY	6800	7.9	10	15	25	60 typ	5.20	210
1210ASM-8R2K-YY	8200	7.9	10	17	7.9	45 typ	5.90	168
1210ASM-100K-YY	10000	7.9	10	17	7.9	38 typ	6.00	160
1210ASM-150K-YY	15000	7.9	10	15	7.9	20 typ	7.00	120

Core Material: Ceramic

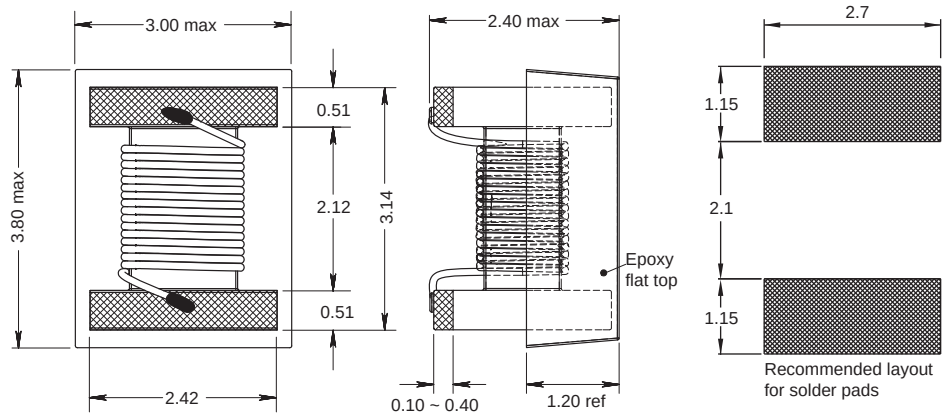
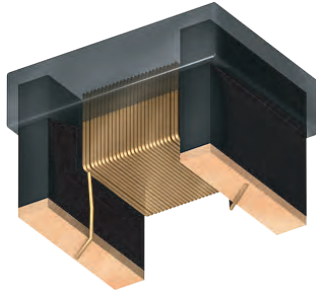
Revision date: 11 Jan 2022

SPQ: Taped / Reel 800 [-01]
3000 [-04]

Remarks: - Unlisted inductance values available upon request.
- 2% and 5% tolerance available upon request.

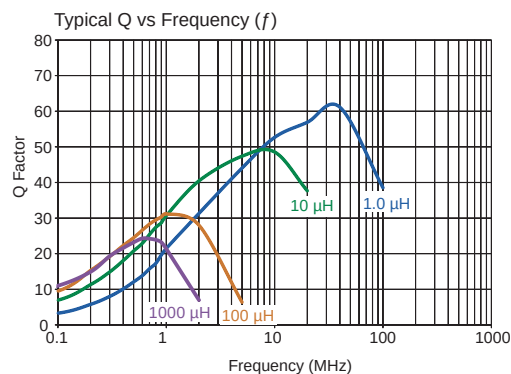
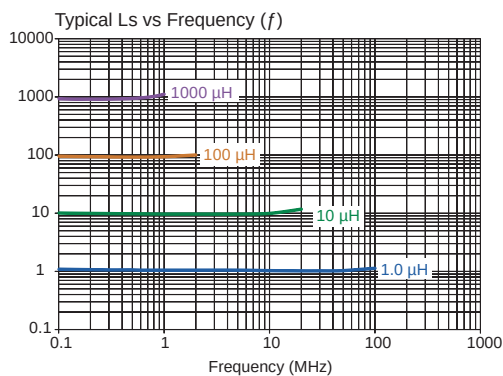
1210 F

Engineer's Kit: EK-1210F-X



(Wire wound - open)

Chip Inductors for RF Applications



Single layer (typ)

Part No	Inductance L (µH)	f _L (MHz)	Tol ± (%)	Q min	f _Q (MHz)	SRF min (MHz)	DCR max (Ω)	Rated DC Current max (mA)
1210F-R10K-YY	0.1	25	10	40	25	375	0.15	1131
1210F-1R0K-YY	1.0	1	10	30	7.96	200	0.28	600
1210F-1R2K-YY	1.2	1	10	30	7.96	200	0.32	560
1210F-1R5K-YY	1.5	1	10	30	7.96	200	0.34	535
1210F-1R8K-YY	1.8	1	10	30	7.96	150	0.41	490
1210F-2R2K-YY	2.2	1	10	30	7.96	150	0.43	480
1210F-2R7K-YY	2.7	1	10	30	7.96	150	0.49	450
1210F-3R3K-YY	3.3	1	10	30	7.96	90	0.55	425
1210F-3R9K-YY	3.9	1	10	30	7.96	80	0.59	410
1210F-4R7K-YY	4.7	1	10	30	7.96	70	0.65	390
1210F-5R6K-YY	5.6	1	10	30	7.96	40	0.71	375
1210F-6R8K-YY	6.8	1	10	27	7.96	28	0.78	360
1210F-8R2K-YY	8.2	1	10	27	7.96	25	0.92	330
1210F-100K-YY	10	1	10	27	2.52	15	0.98	320
1210F-120K-YY	12	0.1	10	27	2.52	13	1.10	300
1210F-150K-YY	15	0.1	10	27	2.52	12	1.25	280
1210F-180K-YY	18	0.1	10	27	2.52	11	1.35	270
1210F-220K-YY	22	0.1	10	27	2.52	10	1.45	260
1210F-270K-YY	27	0.1	10	26	2.52	9.0	1.65	245
1210F-330K-YY	33	0.1	10	25	2.52	8.0	1.85	230
1210F-390K-YY	39	0.1	10	25	2.52	7.0	2.05	220
1210F-470K-YY	47	0.1	10	25	2.52	6.5	2.30	210
1210F-560K-YY	56	0.1	10	24	2.52	6.0	2.50	200
1210F-680K-YY	68	0.1	10	23	2.52	5.5	2.80	190
1210F-820K-YY	82	0.1	10	22	2.52	5.0	3.20	175
1210F-101K-YY	100	0.1	10	22	2.52	4.5	4.70	145
1210F-121K-YY	120	0.1	10	30	2.52	4.2	5.20	140
1210F-151K-YY	150	0.1	10	24	0.796	4.0	6.10	130
1210F-181K-YY	180	0.1	10	27	0.796	3.6	6.90	120
1210F-221K-YY	220	0.1	10	25	0.796	3.3	7.50	115
1210F-271K-YY	270	0.1	10	23	0.796	3.0	12.5	90
1210F-331K-YY	330	0.1	10	23	0.796	2.8	14.1	85
1210F-391K-YY	390	0.1	10	23	0.796	2.5	15.3	80
1210F-471K-YY	470	0.1	10	22	0.796	2.3	20.5	75
1210F-561K-YY	560	0.1	10	22	0.796	2.2	23.0	70
1210F-681K-YY	680	0.1	10	22	0.796	1.9	25.0	65
1210F-821K-YY	820	0.1	10	20	0.796	1.7	28.0	60
1210F-102K-YY	1000	0.1	10	18	0.796	1.6	32.0	55

Core Material: Ferrite

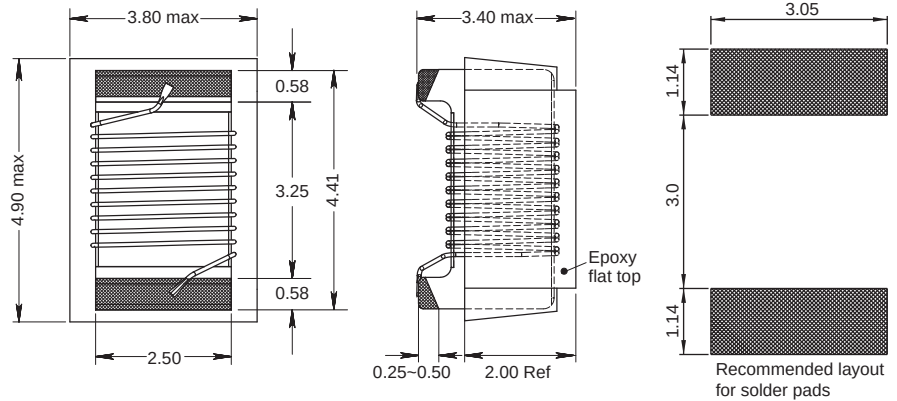
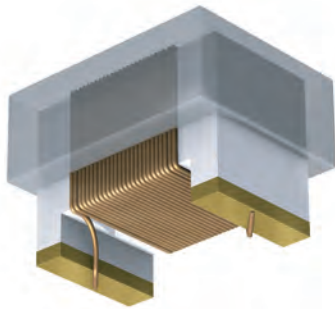
Revision date: 27 Sept 2023

SPQ: Taped / Reel 800 [-01]
3000 [-04]

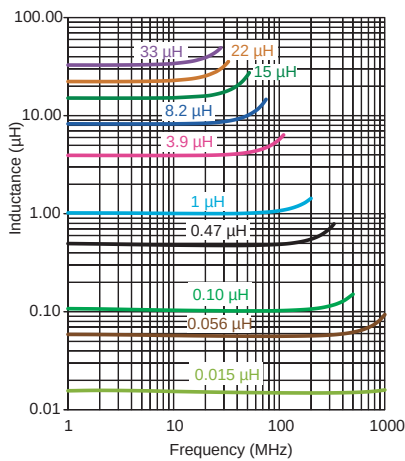
Remarks: - Unlisted inductance values available upon request.
- 2% and 5% tolerance available upon request.

1812 AS

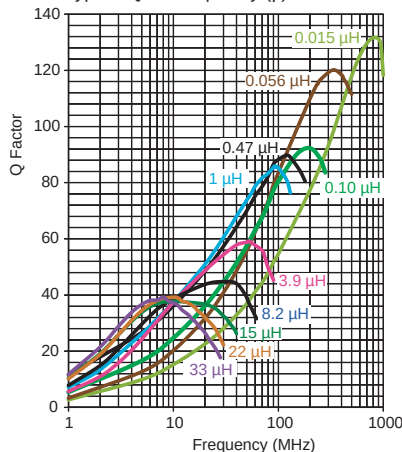
Engineer's Kit: EK-1812AS-X



Typical Ls vs Frequency (f)



Typical Q vs Frequency (f)



Single layer (typ)

Part No	Inductance L (µH)	f _L (MHz)	Tol ± (%)	Q min	f _Q (MHz)	SRF (MHz)	DCR max (Ω)	Rated DC Current max (mA)
1812AS-015K-YY	0.015	50	10	70	500	2400 min	0.035	1550
1812AS-022K-YY	0.022	50	10	70	500	2300 min	0.050	1550
1812AS-033K-YY	0.033	50	10	70	500	1850 min	0.060	1500
1812AS-047K-YY	0.047	50	10	70	250	1100 min	0.060	1500
1812AS-056K-YY	0.056	50	10	70	250	900 min	0.070	1350
1812AS-068K-YY	0.068	50	10	70	250	900 min	0.070	1350
1812AS-082K-YY	0.082	50	10	70	250	900 min	0.080	1300
1812AS-R10K-YY	0.10	50	10	70	250	650 min	0.080	1300
1812AS-R12K-YY	0.12	50	10	70	100	650 min	0.10	1050
1812AS-R15K-YY	0.15	50	10	68	100	600 min	0.13	1000
1812AS-R22K-YY	0.22	50	10	68	100	600 min	0.17	800
1812AS-R27K-YY	0.27	50	10	68	100	500 min	0.19	800
1812AS-R33K-YY	0.33	50	10	64	100	400 min	0.20	700
1812AS-R37K-YY	0.37	50	10	64	100	400 min	0.22	650
1812AS-R47K-YY	0.47	50	10	64	100	400 min	0.30	500
1812AS-1R0K-YY	1.0	7.9	10	62	50	277 min	1.20	480
1812AS-1R2K-YY	1.2	7.9	10	60	50	240 min	1.20	480
1812AS-1R5K-YY	1.5	7.9	10	60	50	220 min	1.60	430
1812AS-1R8K-YY	1.8	7.9	10	60	50	200 min	2.00	380
1812AS-2R2K-YY	2.2	7.9	10	63	50	180 min	2.20	340
1812AS-2R7K-YY	2.7	7.9	10	63	50	160 min	3.20	300
1812AS-3R3K-YY	3.3	7.9	10	50	50	145 typ	3.80	270
1812AS-3R9K-YY	3.9	7.9	10	50	50	130 typ	5.00	240
1812AS-4R7K-YY	4.7	7.9	10	50	50	120 typ	5.40	230
1812AS-5R6K-YY	5.6	7.9	10	40	50	105 typ	5.70	220
1812AS-6R8K-YY	6.8	7.9	10	40	50	103 typ	6.60	210
1812AS-8R2K-YY	8.2	7.9	10	38	50	94 typ	7.00	200
1812AS-100K-YY	10	7.9	10	38	50	80 typ	7.70	190
1812AS-120K-YY	12	2.5	10	38	10	74 typ	8.70	180
1812AS-150K-YY	15	2.5	10	37	10	59 typ	9.60	170
1812AS-180K-YY	18	2.5	10	36	10	59 typ	10.5	160
1812AS-220K-YY	22	2.5	10	36	10	45 typ	13.0	155
1812AS-270K-YY	27	2.5	10	36	10	35 typ	14.0	150
1812AS-330K-YY	33	2.5	10	36	10	35 typ	16.5	145
1812AS-390K-YY	39	2.5	10	32	10	25 typ	23.5	80
1812AS-470K-YY	47	2.5	10	32	10	20 typ	39.0	80
1812AS-560K-YY	56	2.5	10	32	10	20 typ	41.0	60
1812AS-680K-YY	68	2.5	10	32	10	18 typ	54.0	58
1812AS-820K-YY	82	2.5	10	32	10	15 typ	59.0	55

Core Material: Ceramic

Revision date: 11 Jan 2022

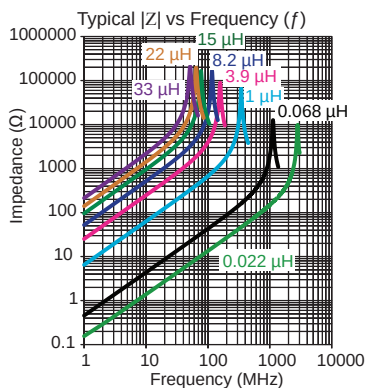
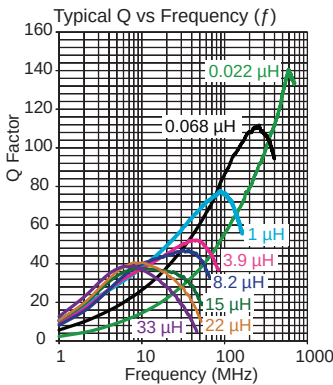
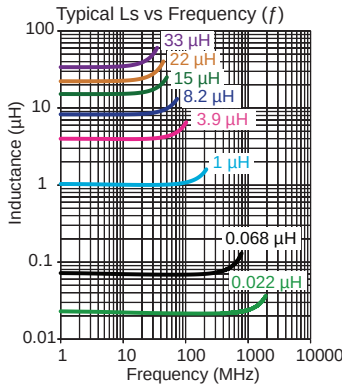
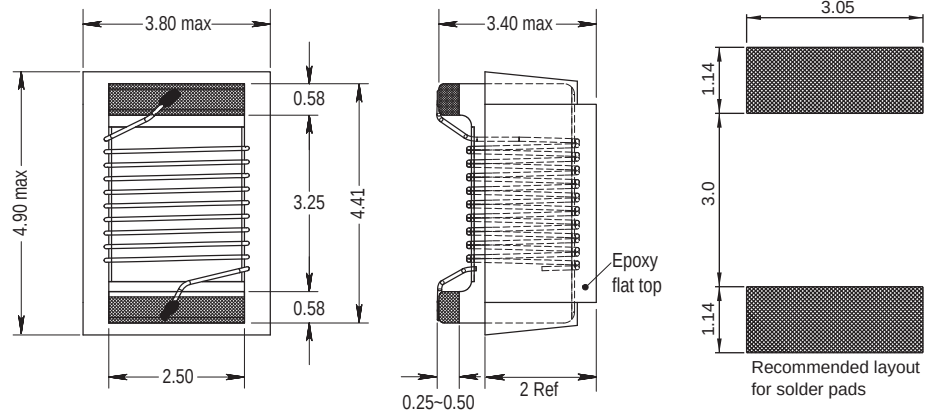
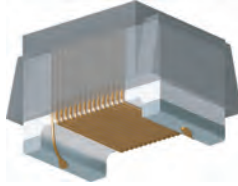
SPQ: Taped / Reel 600 [-01]
2200 [-04]

Remarks: - Unlisted inductance values available upon request.
- 2% and 5% tolerance available upon request.

1812 ASM

Non-magnetic

Engineer's Kit: EK-1812ASM-X



Part No	Inductance L (μH)	f_L (MHz)	Tol ± (%)	Q min	f_Q (MHz)	SRF (MHz)	DCR max (Ω)	Rated DC Current max (mA)
1812ASM-022K-YY	0.022	50	10	70	500	2300 min	0.050	1550
1812ASM-068K-YY	0.068	50	10	70	250	900 min	0.070	1350
1812ASM-1R0K-YY	1.0	7.9	10	60	50	280 min	0.640	460
1812ASM-1R2K-YY	1.2	7.9	10	60	50	260 min	0.850	420
1812ASM-1R5K-YY	1.5	7.9	10	60	50	235 min	1.300	360
1812ASM-1R8K-YY	1.8	7.9	10	60	50	220 min	1.800	290
1812ASM-2R2K-YY	2.2	7.9	10	60	50	205 min	2.100	280
1812ASM-2R7K-YY	2.7	7.9	10	60	50	180 min	2.750	260
1812ASM-3R3K-YY	3.3	7.9	10	56	50	160 typ	2.800	240
1812ASM-3R9K-YY	3.9	7.9	10	51	50	145 typ	3.100	220
1812ASM-4R7K-YY	4.7	7.9	10	51	50	135 typ	3.900	210
1812ASM-5R6K-YY	5.6	7.9	10	43	50	115 typ	3.800	210
1812ASM-6R8K-YY	6.8	7.9	10	41	50	105 typ	5.140	200
1812ASM-8R2K-YY	8.2	7.9	10	40	50	100 typ	7.150	140
1812ASM-100K-YY	10	7.9	10	36	50	90 typ	8.13	150
1812ASM-120K-YY	12	2.5	10	34	10	75 typ	8.70	130
1812ASM-150K-YY	15	2.5	10	34	10	70 typ	9.60	130
1812ASM-180K-YY	18	2.5	10	32	10	50 typ	10.9	130
1812ASM-220K-YY	22	2.5	10	32	10	40 typ	14.6	110
1812ASM-270K-YY	27	2.5	10	31	10	32 typ	15.9	110
1812ASM-330K-YY	33	2.5	10	31	10	32 typ	17.1	90

Core Material: Ceramic

Revision date: 11 Jan 2022

SPQ: Taped / Reel 600 [-01]
2200 [-04]

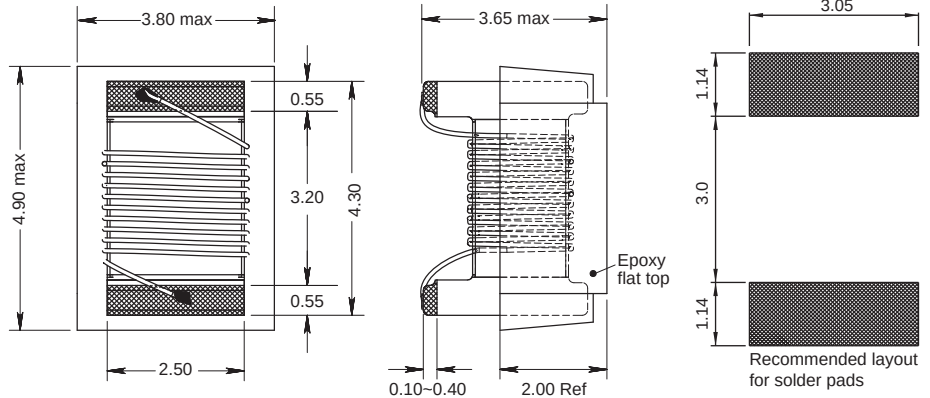
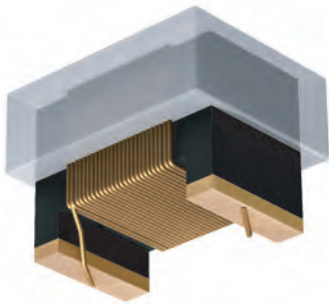
Remarks: - Unlisted inductance values available upon request.
- 2% and 5% tolerance available upon request.

(Wire wound - open)

Chip Inductors for RF / Medical Applications

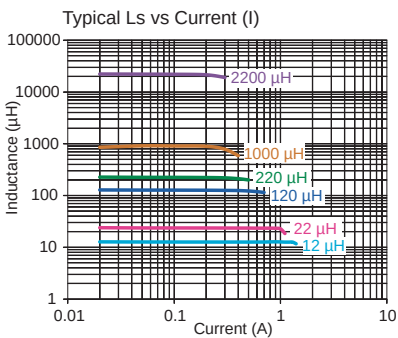
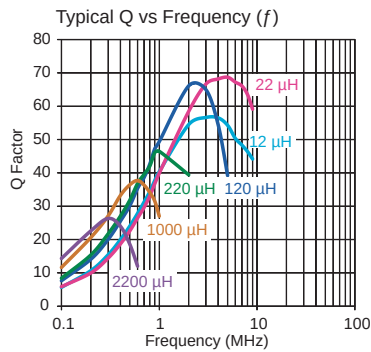
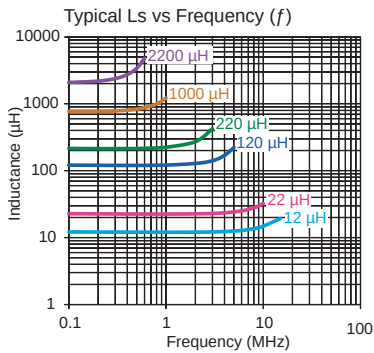
1812 AF

Engineer's Kit: EK-1812AF-X



(Wire wound - open)

Chip Inductors for RF Applications



Part No	Inductance L (μH)	f _L (MHz)	Tol ± (%)	Q min	f _Q (MHz)	SRF (MHz)	DCR max (Ω)	Rated DC Current (mA)
1812AF-3R9K-YY	3.9	2.5	10	30	2.5	145 min	0.59	410
1812AF-100K-YY	10	2.5	10	42	2.5	23 typ	1.8	310
1812AF-120K-YY	12	2.5	10	42	2.5	40 typ	2.0	310
1812AF-150K-YY	15	2.5	10	42	2.5	40 typ	2.5	290
1812AF-180K-YY	18	2.5	10	45	2.5	40 typ	2.8	270
1812AF-220K-YY	22	2.5	10	45	2.5	40 typ	3.2	260
1812AF-270K-YY	27	2.5	10	45	2.5	36 typ	3.6	240
1812AF-330K-YY	33	2.5	10	45	2.5	34 typ	4.0	230
1812AF-390K-YY	39	2.5	10	45	2.5	32 typ	4.5	210
1812AF-470K-YY	47	2.5	10	42	2.5	30 typ	5.0	200
1812AF-560K-YY	56	2.5	10	42	2.5	27 typ	5.5	190
1812AF-680K-YY	68	2.5	10	40	2.5	23 typ	6.0	180
1812AF-820K-YY	82	2.5	10	40	2.5	19 typ	7.0	170
1812AF-101K-YY	100	2.5	10	40	2.5	13 typ	8.0	150
1812AF-121K-YY	120	0.79	10	33	0.79	11 typ	11.5	135
1812AF-151K-YY	150	0.79	10	36	0.79	10 typ	13.0	125
1812AF-181K-YY	180	0.79	10	36	0.79	9.0 typ	14.2	120
1812AF-221K-YY	220	0.79	10	38	0.79	6.0 typ	16.2	115
1812AF-271K-YY	270	0.79	10	38	0.79	4.5 typ	20.5	105
1812AF-331K-YY	330	0.79	10	38	0.79	3.5 typ	22.5	100
1812AF-391K-YY	390	0.79	10	38	0.79	3.0 typ	24.5	90
1812AF-471K-YY	470	0.79	10	33	0.79	2.1 typ	26.5	85
1812AF-561K-YY	560	0.79	10	33	0.79	2.0 typ	28.5	75
1812AF-681K-YY	680	0.79	10	27	0.79	1.8 typ	38.0	60
1812AF-821K-YY	820	0.79	10	27	0.79	1.7 typ	41.0	55
1812AF-102K-YY	1000	0.79	10	26	0.79	1.6 typ	44.0	50
1812AF-122K-YY	1200	0.252	10	18	0.252	0.8 typ	60.0	42
1812AF-222K-YY	2200	0.252	10	18	0.252	0.62 typ	84.0	32

Core Material: Ceramic & Ferrite

Revision date: 11 Jan 2022

SPQ: Taped / Reel 600 [-01]
2200 [-04]

Remarks: - Unlisted inductance values available upon request.
- 2% and 5% tolerance available upon request.

Chip Inductors for Power Applications

Our 1008FPS, 1212FPS, 1616FPS, 242408FPS and 242418FPS series of semi-shielded chip size power inductors are designed with a high flux density ferrite core, having a small footprint of either 2x2, 3x3, 4x4 or 6x6 mm as well as a flat profile. The inductance range covers 0.47μH to 1000μH, rated current up to 6.5A. The FPS inductors are magnetically shielded by using a ferrite-epoxy resin.

With our new 1616FP and 242418FP wire-wound chip size power inductor series, FASTRON offers an inductance range from 1.0μH up to 1000μH and a max 5A rated current.

Both the inductor families (unshielded FP as well as semi-shielded FPS series) have lead-free, pre-tinned terminals and provide good solderability. Of course all of our FP and FPS chip size inductors are RoHS compliant.

Applications

Major applications for our FP and FPS inductor series are power applications (e.g. AC/DC and DC/DC converters) of small size with cost efficiency as one of the critical factors. The parts are used in stationary - as well as in handheld systems and portable devices, e.g. for driving LED backlight for tablet displays.

Technical Data

L – Value (rated inductance)	Measured with E4980AL Precision LCR meter or equivalent at frequency f _L , 25°C ambient
SRF (min)	Measured with E4991B Impedance Analyzer or equivalent at 25°C ambient
DCR (max)	Measured at 25°C ambient
Rated DC Current: I _{rms}	Max permissible DC Current that causes a 40°C typ. component temperature rise from 25°C ambient.
Saturation Current: I _{sat}	For FPS, max permissible DC bias at 25°C ambient that causes inductance drop 30% (typ.) related to the unloaded inductivity. For FP, max permissible DC bias at 25°C ambient that causes inductance drop 10% (typ.) related to the unloaded inductivity.
Operating Temperature	-40°C to +125°C (including component self-heating): FPS -40°C to +150°C (including component self-heating): FP
Moisture Sensitivity Levels (MSL)	MSL Level 1, indicating unlimited floor life at ≤ 30°C / 85% relative humidity
Surface Finishing	Flat top for perfect pick and place assembly
Pad Metallization	Tin as top layer
Wire Termination	Spot welding covered with tin layer
Recommended Soldering Method	Reflow

Ordering Code Example: 1212FPS-1R0X-01

1212 FPS - 1R0 X - YY
(Case Size) (Core Type) (Inductance Value) (Tolerance) (Packaging Code) ➔ 1212FPS-1R0M-01

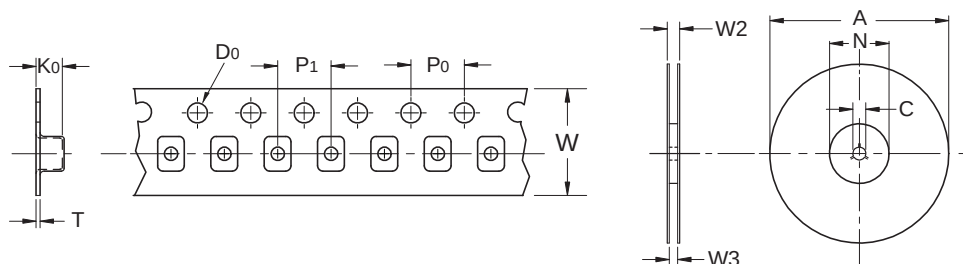
Case Sizes - 1008, 1212, 1616, 242408, 242418

Core Type - FPS, FP (Ferrite)

Tolerances - M (±20%), N (±30%)

Packaging Code - 01 (Taped / Reel)

Packaging Specification Schematic



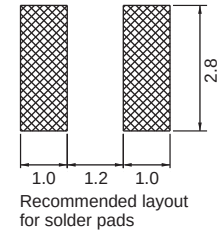
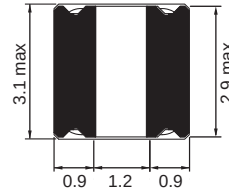
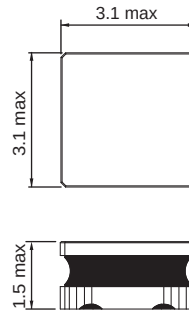
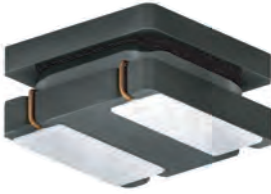
Type	A	D ₀	N	C	W ₂	W ₃	W	P ₁	P ₀	K ₀	T
1008	180	1.50	60	13	18.4	13.7	12	8	4	1.50	0.3
1212	180	1.55	50	13	12.5	8.4	8	4	4	1.60	0.25
1616	330	1.50	99.5	13.5	17.2	12.6	12	8	4	1.90	0.30
242408	330	1.60	100	13.5	17.6	13.0	12	8	4	2.40	0.30
242418	330	1.50	99.5	13.5	21.0	16.6	16	12	4	4.70	0.40

1212 FPS

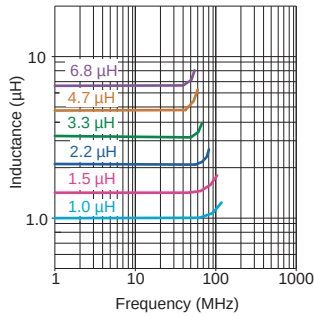


Semi-shielded

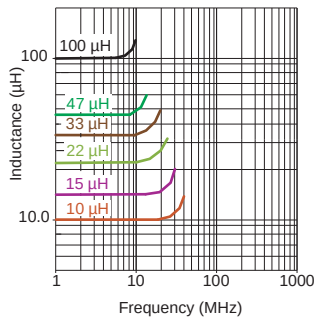
Engineer's Kit: EK-1212FPS-X



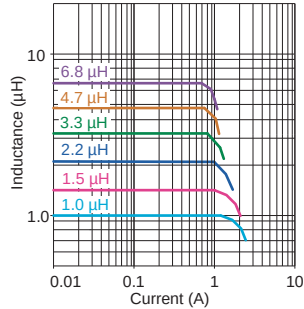
Typical Ls vs Frequency (f)



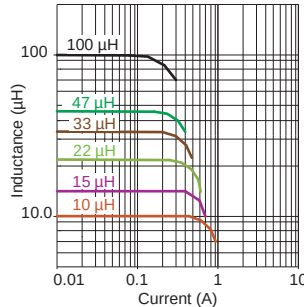
Typical Ls vs Frequency (f)



Typical Ls vs Current (I)



Typical Ls vs Current (I)



Part No	Inductance	f _L (MHz)	Tol ± (%)	SRF min (MHz)	DCR (Ω)		Rated DC Current (A)			
	L (μH)				typ	max	I _{sat}		I _{rms}	
1212FPS-1R0X-01	1.0	1 @ 0.1 V	20,30	145	0.040	0.048	2.35	2.10	2.35	2.10
1212FPS-1R5X-01	1.5	1 @ 0.1 V	20,30	130	0.055	0.066	2.00	1.80	2.10	1.90
1212FPS-2R2X-01	2.2	1 @ 0.1 V	20,30	90	0.060	0.072	1.65	1.48	1.80	1.60
1212FPS-3R3X-01	3.3	1 @ 0.1 V	20,30	75	0.093	0.112	1.40	1.21	1.60	1.45
1212FPS-4R7X-01	4.7	1 @ 0.1 V	20,30	65	0.113	0.136	1.20	1.08	1.40	1.25
1212FPS-6R8X-01	6.8	1 @ 0.1 V	20,30	50	0.176	0.211	1.05	0.90	1.10	0.90
1212FPS-100X-01	10	1 @ 0.1 V	20,30	45	0.234	0.276	0.88	0.75	1.00	0.87
1212FPS-150X-01	15	1 @ 0.1 V	20,30	33	0.352	0.422	0.68	0.58	0.80	0.65
1212FPS-220X-01	22	1 @ 0.1 V	20,30	28	0.510	0.622	0.58	0.47	0.60	0.55
1212FPS-330X-01	33	1 @ 0.1 V	20,30	22	0.799	0.959	0.46	0.39	0.50	0.45
1212FPS-470X-01	47	1 @ 0.1 V	20,30	18	1.172	1.406	0.38	0.32	0.45	0.40
1212FPS-101X-01	100	1 @ 0.1 V	20,30	11	2.433	2.920	0.27	0.23	0.29	0.25

Core Material: Ferrite

Revision date: 11 Mar 2022

SPQ: Taped / Reel 2000 [-01]

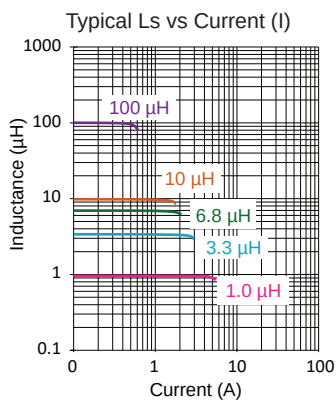
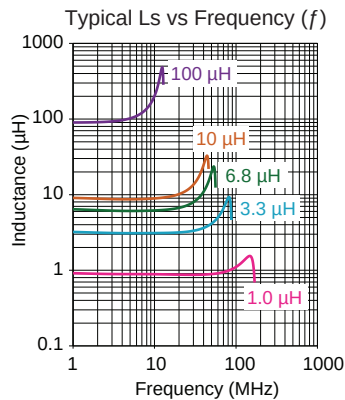
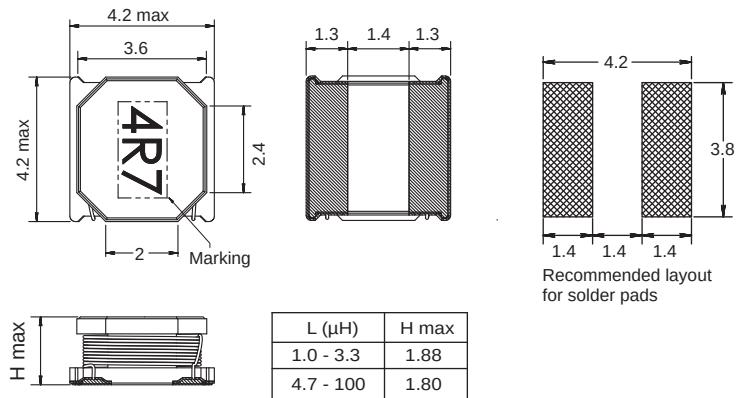
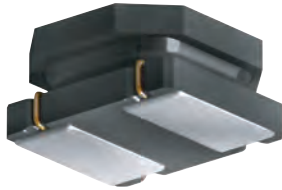


1616 FP



Non-shielded

Engineer's Kit: EK-1616FP-X



Part No	Inductance L (μH)	f_L (kHz)	Tol ± (%)	SRF typ (MHz)	DCR max (mΩ)	Rated DC Current I_{sat} (A)	I_{rms} (A)
1616FP-1R0M-01	1.0	100 @ 1 V	20	145	50	3.85	2.80
1616FP-1R5M-01	1.5	100 @ 1 V	20	105	65	2.95	2.50
1616FP-2R2M-01	2.2	100 @ 1 V	20	85	90	2.60	2.10
1616FP-3R3M-01	3.3	100 @ 1 V	20	70	110	2.15	1.60
1616FP-4R7M-01	4.7	100 @ 1 V	20	50	150	1.80	1.40
1616FP-6R8M-01	6.8	100 @ 1 V	20	43	180	1.50	1.25
1616FP-100M-01	10	100 @ 1 V	20	35	250	1.30	1.00
1616FP-150M-01	15	100 @ 1 V	20	30	390	1.00	0.85
1616FP-220M-01	22	100 @ 1 V	20	25	570	0.85	0.65
1616FP-330M-01	33	100 @ 1 V	20	18	850	0.70	0.55
1616FP-470M-01	47	100 @ 1 V	20	15	1190	0.60	0.50
1616FP-680M-01	68	100 @ 1 V	20	12	1655	0.50	0.40
1616FP-101M-01	100	100 @ 1 V	20	10	2350	0.40	0.35

Core Material: Ferrite

Revision date: 07 Nov 2024

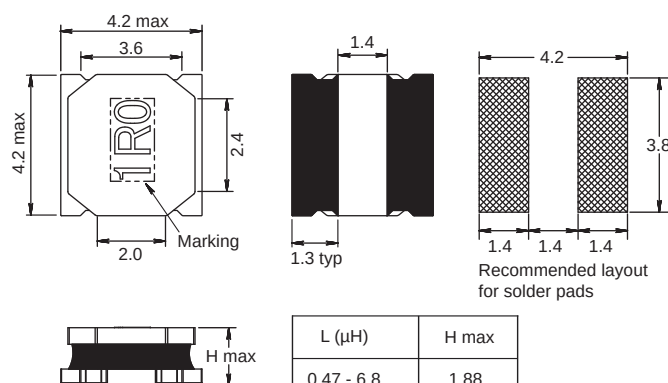
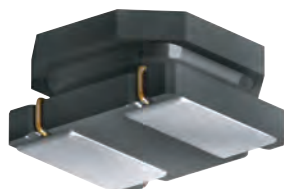
SPQ: Taped / Reel 3000 [-01]

Remarks: Unlisted inductance values available upon request.

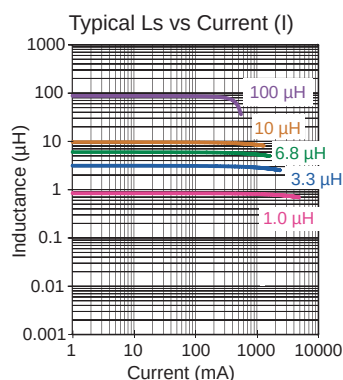
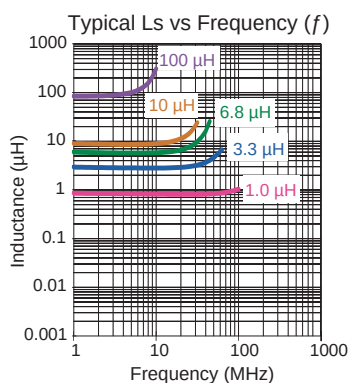
1616 FPS

Semi-shielded

Engineer's Kit: EK-1616FPS-X



L (μH)	H max
0.47 - 6.8	1.88
10 - 220	1.80



Part No	Inductance L (μH)	f_l (kHz)	Tol ± (%)	DCR max (mΩ)	Rated DC Current I_{sat} (A)	I_{rms} (A)
1616FPS-R47N-01	0.47	100 @ 1 V	30	41.6	3.50	4.00
1616FPS-R82N-01	0.82	100 @ 1 V	30	20.8	4.20	4.00
1616FPS-1R0N-01	1.0	100 @ 1 V	30	24.7	4.70	3.70
1616FPS-1R2N-01	1.2	100 @ 1 V	30	27.3	4.00	3.50
1616FPS-1R5N-01	1.5	100 @ 1 V	30	35.1	3.50	3.10
1616FPS-2R2M-01	2.2	100 @ 1 V	20	44.4	3.00	2.90
1616FPS-2R7M-01	2.7	100 @ 1 V	20	52.0	2.40	2.30
1616FPS-3R3M-01	3.3	100 @ 1 V	20	66.0	2.30	2.20
1616FPS-4R7M-01	4.7	100 @ 1 V	20	84.0	2.00	1.90
1616FPS-6R8M-01	6.8	100 @ 1 V	20	118	1.60	1.50
1616FPS-100M-01	10	100 @ 1 V	20	180	1.40	1.30
1616FPS-150M-01	15	100 @ 1 V	20	264	1.10	1.00
1616FPS-220M-01	22	100 @ 1 V	20	348	0.95	0.90
1616FPS-330M-01	33	100 @ 1 V	20	552	0.75	0.70
1616FPS-470M-01	47	100 @ 1 V	20	780	0.62	0.60
1616FPS-680M-01	68	100 @ 1 V	20	1128	0.50	0.50
1616FPS-101M-01	100	100 @ 1 V	20	1596	0.45	0.42
1616FPS-151M-01	150	100 @ 1 V	20	2400	0.35	0.32
1616FPS-221M-01	220	100 @ 1 V	20	3552	0.30	0.28

Core Material: Ferrite

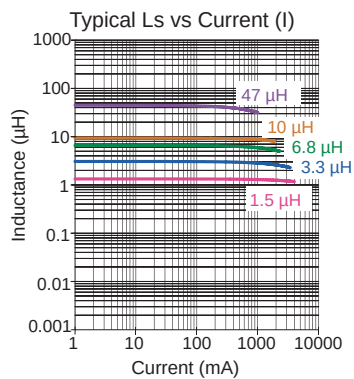
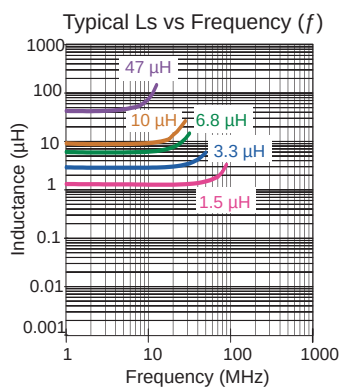
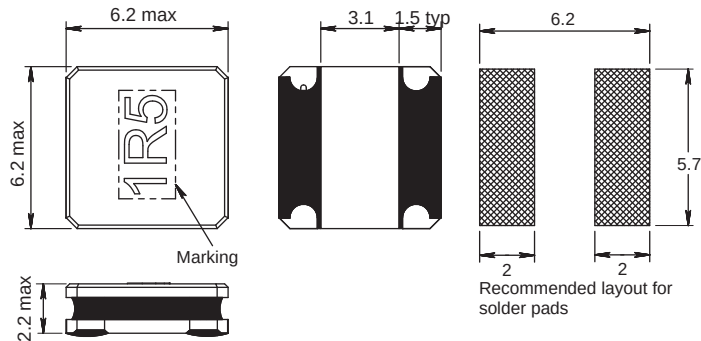
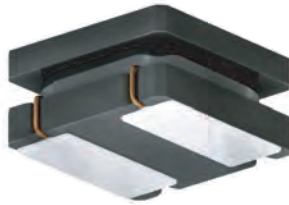
SPQ: Taped / Reel 3000 [-01]

Revision date: 11 Mar 2022

242408 FPS

Semi-shielded

Engineer's Kit: EK-242408FPS-X



Part No	Inductance	f_L (kHz)	Tol $\pm$ (%)	DCR max (mΩ)	Rated DC Current I_{sat} (A)	I_{rms} (A)
	L (μH)					
242408FPS-R50N-01	0.5	100 @ 1 V	30	11.7	7.0	5.2
242408FPS-R80N-01	0.8	100 @ 1 V	30	15.6	6.0	4.1
242408FPS-1R5N-01	1.5	100 @ 1 V	30	22.1	4.0	3.6
242408FPS-2R2N-01	2.2	100 @ 1 V	30	31.2	3.5	2.9
242408FPS-3R3N-01	3.3	100 @ 1 V	30	39	2.8	2.8
242408FPS-4R7M-01	4.7	100 @ 1 V	20	52	2.4	2.2
242408FPS-5R6M-01	5.6	100 @ 1 V	20	66	2.2	2.0
242408FPS-6R8M-01	6.8	100 @ 1 V	20	72	2.0	1.8
242408FPS-8R2M-01	8.2	100 @ 1 V	20	84	1.9	1.7
242408FPS-100M-01	10	100 @ 1 V	20	108	1.9	1.5
242408FPS-150M-01	15	100 @ 1 V	20	144	1.3	1.2
242408FPS-220M-01	22	100 @ 1 V	20	204	1.1	1.0
242408FPS-330M-01	33	100 @ 1 V	20	372	0.9	0.9
242408FPS-470M-01	47	100 @ 1 V	20	444	0.8	0.8

Core Material: Ferrite

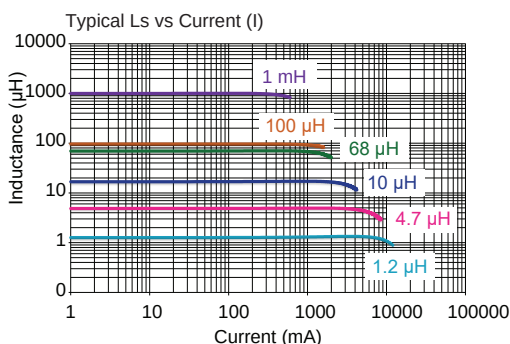
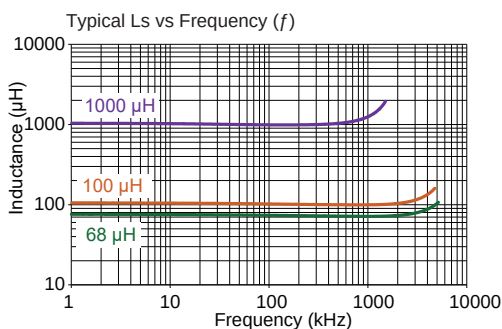
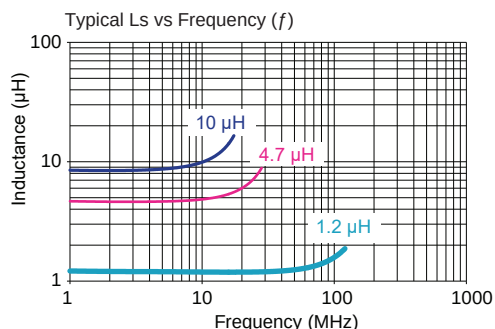
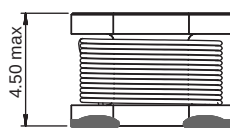
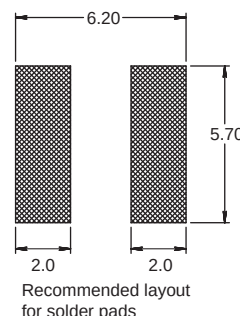
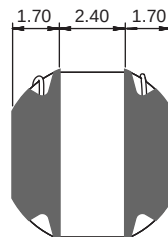
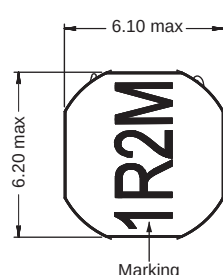
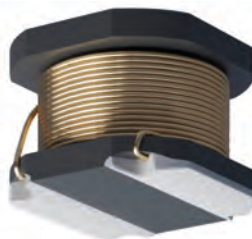
SPQ: Taped / Reel 2000 [-01]

Revision date: 11 Mar 2022

242418 FP

Non-shielded

Engineer's Kit: EK-242418FP-X



Part No	Inductance	f _L	Tol	SRF typ (MHz)	DCR max (mΩ)	Rated DC Current	
	L (µH)					I _{sat} (A)	I _{rms} (A)
242418FP-R82M-01	0.82	1 MHz @ 1 V	20	145	16	8.00	5.00
242418FP-1R2M-01	1.2	1 MHz @ 1 V	20	145	18	8.00	5.00
242418FP-1R5M-01	1.5	1 MHz @ 1 V	20	92	25	6.50	4.50
242418FP-2R2M-01	2.2	1 MHz @ 1 V	20	65	25	6.00	4.00
242418FP-2R7M-01	2.7	1 MHz @ 1 V	20	50	35	5.25	4.00
242418FP-3R3M-01	3.3	1 MHz @ 1 V	20	45	45	4.50	4.00
242418FP-3R9M-01	3.9	1 MHz @ 1 V	20	40	45	4.00	4.00
242418FP-4R7M-01	4.7	1 MHz @ 1 V	20	39	55	3.90	3.40
242418FP-5R6M-01	5.6	1 MHz @ 1 V	20	30	55	3.50	3.30
242418FP-6R8M-01	6.8	1 MHz @ 1 V	20	30	75	3.20	3.00
242418FP-8R2M-01	8.2	1 MHz @ 1 V	20	25	80	3.00	2.80
242418FP-100M-01	10	1 MHz @ 1 V	20	20	90	2.80	2.20
242418FP-120M-01	12	1 MHz @ 1 V	20	20	110	2.45	2.00
242418FP-150M-01	15	1 MHz @ 1 V	20	15	125	2.16	2.00
242418FP-180M-01	18	1 MHz @ 1 V	20	12	135	2.10	1.90
242418FP-220M-01	22	1 MHz @ 1 V	20	12	170	1.75	1.60
242418FP-270M-01	27	1 MHz @ 1 V	20	10	195	1.65	1.60
242418FP-330M-01	33	1 MHz @ 1 V	20	10	235	1.56	1.45
242418FP-390M-01	39	1 MHz @ 1 V	20	10	320	1.40	1.30
242418FP-470M-01	47	1 MHz @ 1 V	20	9.0	355	1.40	1.20
242418FP-560M-01	56	1 MHz @ 1 V	20	7.8	420	1.20	1.10
242418FP-680M-01	68	1 MHz @ 1 V	20	7.0	460	1.10	0.95
242418FP-820M-01	82	1 MHz @ 1 V	20	6.5	520	1.00	0.90
242418FP-101X-01	100	1 MHz @ 1 V	10,20	5.0	620	0.90	0.80
242418FP-121X-01	120	1 MHz @ 1 V	10,20	5.0	750	0.85	0.75
242418FP-151X-01	150	1 MHz @ 1 V	10,20	5.0	940	0.72	0.66
242418FP-181X-01	180	1 MHz @ 1 V	10,20	4.0	1200	0.70	0.58
242418FP-221X-01	220	1 MHz @ 1 V	10,20	3.9	1260	0.64	0.56
242418FP-102X-01	1000	1 kHz @ 1 V	10,20	1.7	5200	0.25	0.25

Core Material: Ferrite

Revision date: 29 Nov 2023

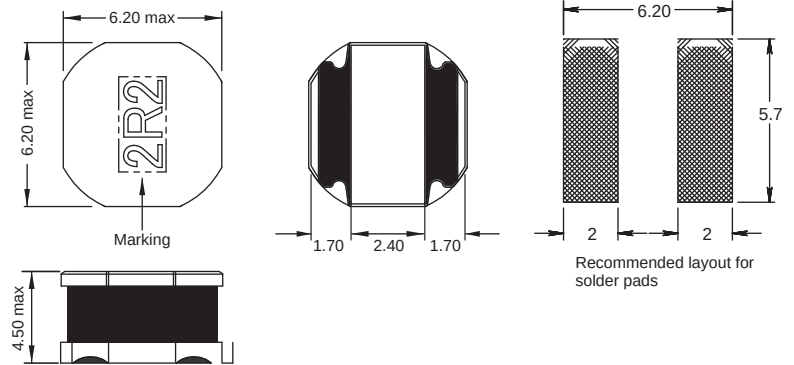
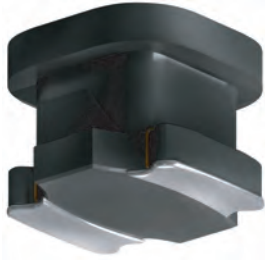
SPQ: Taped / Reel 1000 [-01]

Remarks: Unlisted inductance values available upon request.

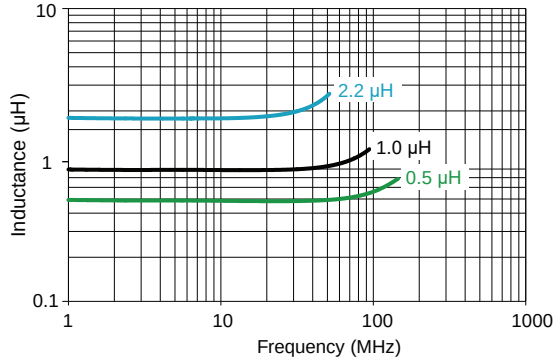
242418 FPS

Semi-shielded

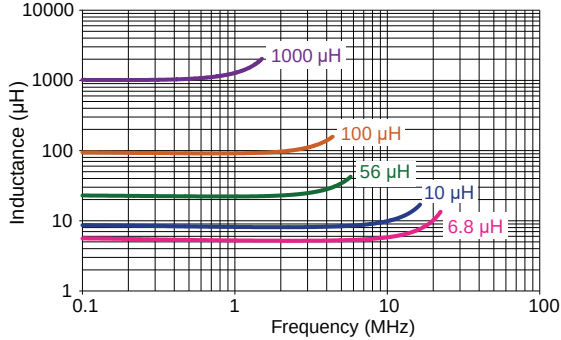
Engineer's Kit: EK-242418FPS-X



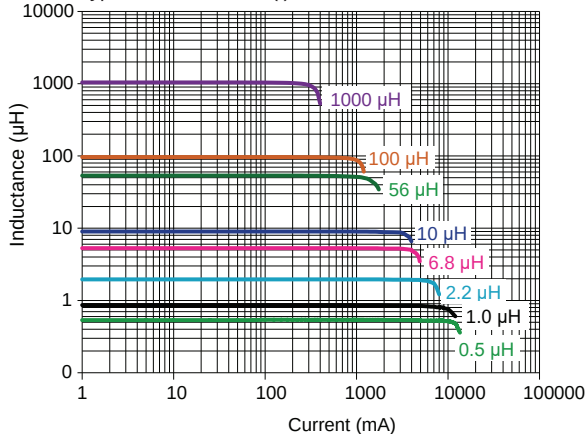
Typical L_s vs Frequency (f)



Typical L_s vs Frequency (f)



Typical L_s vs Current (I)



Part No	Inductance L (μH)	f_L (kHz)	Tol ± (%)	DCR max (mΩ)	Rated DC Current Isat (A) Irms (A)
242418FPS-R50N-01	0.5	100 @ 1V	30	12	10.5 7.1
242418FPS-1R0N-01	1.0	100 @ 1V	30	13	8.60 6.5
242418FPS-1R3N-01	1.3	100 @ 1V	30	14	8.00 6.0
242418FPS-1R8N-01	1.8	100 @ 1V	30	16	7.00 5.3
242418FPS-2R2N-01	2.2	100 @ 1V	30	17	6.10 5.0
242418FPS-3R0N-01	3.0	100 @ 1V	30	22	5.00 4.8
242418FPS-3R3N-01	3.3	100 @ 1V	30	22	4.50 4.5
242418FPS-4R5N-01	4.5	100 @ 1V	30	30	4.30 3.8
242418FPS-4R7N-01	4.7	100 @ 1V	30	30	4.00 3.7
242418FPS-5R6N-01	5.6	100 @ 1V	30	34	3.80 3.6
242418FPS-6R3N-01	6.3	100 @ 1V	30	39	3.80 3.6
242418FPS-6R8N-01	6.8	100 @ 1V	30	44	3.60 3.5
* 242418FPS-8R2N-01	8.2	100 @ 1V	30	53.3	3.20 3.1
* 242418FPS-100M-01	10	100 @ 1V	20	54	3.10 3.0
* 242418FPS-150M-01	15	100 @ 1V	20	96	2.30 2.3
* 242418FPS-220M-01	22	100 @ 1V	20	134	1.90 1.9
* 242418FPS-330M-01	33	100 @ 1V	20	204	1.50 1.5
* 242418FPS-470M-01	47	100 @ 1V	20	252	1.30 1.3
* 242418FPS-560M-01	56	100 @ 1V	20	324	1.20 1.2
* 242418FPS-680M-01	68	100 @ 1V	20	390	1.00 1.0
* 242418FPS-101M-01	100	100 @ 1V	20	552	0.90 0.9
* 242418FPS-151M-01	150	100 @ 1V	20	810	0.85 1.0
* 242418FPS-221M-01	220	100 @ 1V	20	1104	0.55 0.50
* 242418FPS-331M-01	330	100 @ 1V	20	1700	0.55 0.50
* 242418FPS-471M-01	470	100 @ 1V	20	2050	0.50 0.50
* 242418FPS-681M-01	680	100 @ 1V	20	3185	0.40 0.40
* 242418FPS-821M-01	820	100 @ 1V	20	3565	0.35 0.35
* 242418FPS-102M-01	1000	100 @ 1V	20	6218	0.25 0.25
* 242418FPS-332M-01	3300	100 @ 1V	20	20000	0.15 0.14

Core Material: Ferrite

Revision date: 09 Sept 2024

SPQ: Taped / Reel 1000 [-01]

Remarks:

* : The total length and width of component including epoxy is 6.8mm max.

Common Mode Filter Chip Inductors

FASTRON added size 1210 to its common mode choke product portfolio. Both the 1812CMF and the 1210CMF have two coupled windings wound, providing a symmetrical coil. The ferrite plate on top of the ferrite core closes the magnetic circuit and allows accurate pick and place assembly.

Applications The main purpose of 1210CMF and 1812CMF is protecting differential signal paths from common mode disturbances. The common mode choke is designed to provide highest quality for the most stringent applications e.g. automotive, industrial and automation. The part could be used in data-line filters, Ethernet networking, CAN-Bus, USB, wideband noise suppression and EMC circuit protection for incoming radiation and outgoing noise emission.

Technical Data

L – Value (rated inductance)	Measured with E4980AL Precision LCR Meter or equivalent at frequency f_L , 25°C ambient
Impedance, Z	Measured with E4991B Impedance Analyzer or equivalent at frequency f_Z , 25°C ambient
DCR (max)	Measured at 25°C ambient
Rated DC Current	Max permissible Current that causes a 20°C component temperature rise from 25°C ambient
Operating Temperature	-40°C to +150°C (Including component self-heating): CMF -40°C to +105°C (Including component self-heating): CMF/E
Surface Finishing	Flat top for perfect pick and place assembly
Pad Metallization	Gold flash for 1812 Tin as top layer for 1210
Wire Termination	Spot welding
Recommended Soldering Method	<u>Reflow</u>
Moisture Sensitivity Levels (MSL)	MSL Level 1, indicating unlimited floor life at ≤ 40°C /60% relative humidity
Solderability	Using lead free solder (Sn 96.5) at 245°C ± 5°C for 5 ± 0.5 seconds, min 90% solder coverage of metallization Standard: IEC 68-2-20 (Ta)
Resistance to Soldering Heat	Resistant to 260°C ± 5°C for 10 ± 1 seconds: Standard: IEC 68-2-20 (Tb)
Resistance to Solvent	Resistant to isopropyl alcohol for 5 ± 0.5 minutes at 23°C ± 5°C Standard: IEC 68-2-45
Climatic Test	Defined by the following standards: IEC 68-2-1 for cold test: -55°C for 96 hours IEC 68-2-2 for dry heat test: 150°C for 96 hours IEC 60068-2-78 for humidity test: 40°C at RH 95% for 4 days
Thermal Shock Test	Temperature cycle: -40°C to +150°C to -40°C Max/Min temperature duration: 15 minutes Temperature transition duration: 5 minutes Cycles: 25 Standard: MIL-STD-202G
Adhesion of Soldered Component (Shear Test)	Components withstand a pushing force of 10N for 10 ± 1 seconds Standard: IEC 60068-2-21, method Ue ₃
Mechanical Shock	Mil-Std 202 Method 213, Condition C 3 axis, 6 times, total 18 shocks 100 G, 6 ms, half-sine
Vibration	Mil-Std 202 Method 204 20 mins at 5G 10 Hz to 2000 Hz 12 cycles each of 3 orientations

Ordering Code Example: 1812CMF-101X-YY ➔ **1812CMF-101X-01**

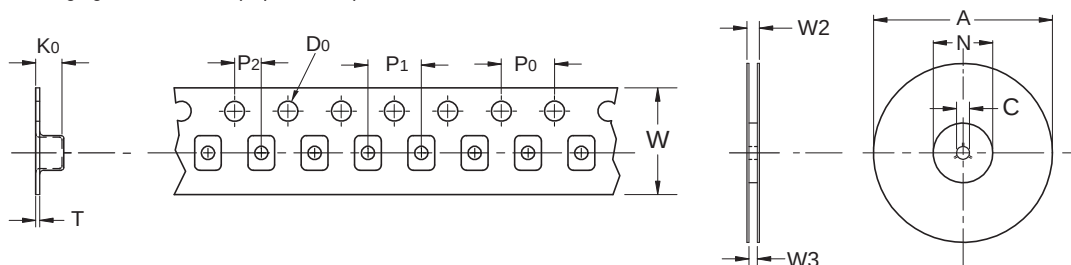
Case Sizes - 1210, 1812

Tolerances - +30%/-10%, +50%/-30%

Packaging Code - 01, 04 (Taped / Reel)

1812 CMF - 101 X - YY
(Case Size) (Series name) (Inductance Value) (Tolerance) (Packaging Code)

Packaging Specification Schematic



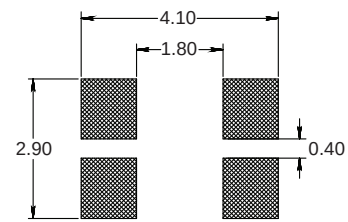
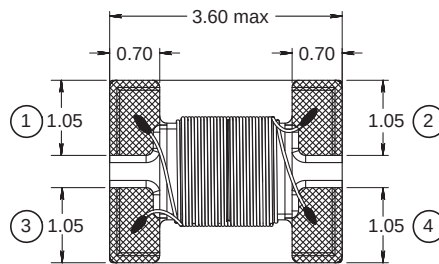
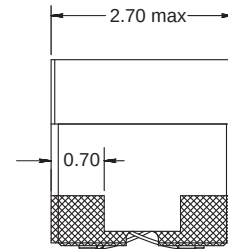
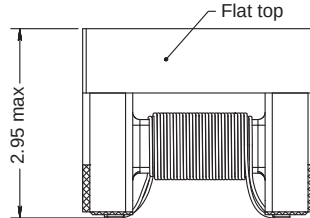
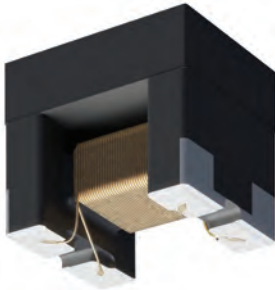
Type	Packaging Code	A	D0	N	C	W2	W3	W	P1	P0	P2	K0	T
1210	01	180	1.50	60	13	18.4	13.7	12	8	4	2	3.00	0.30
1210	04	330	1.50	100	13	18.4	12.4	12	8	4	2	3.00	0.30
1812	01	180	1.50	60	13	18.4	13.7	12	8	4	2	3.40	0.35
1812	04	330	1.50	100	13	18.4	12.4	12	8	4	2	3.40	0.35

1210 CMF

Common Mode Filter
CAN bus

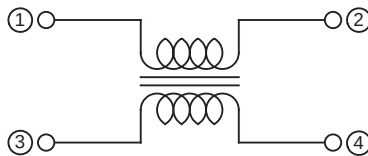


PRELIMINARY

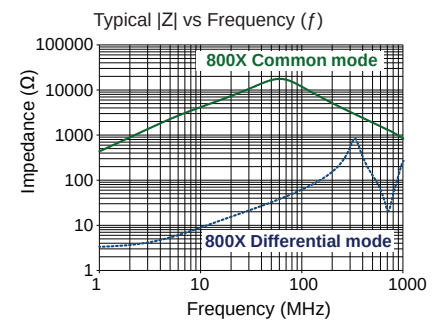
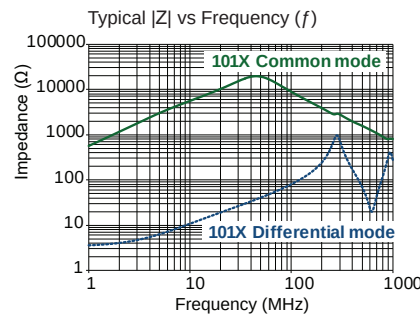
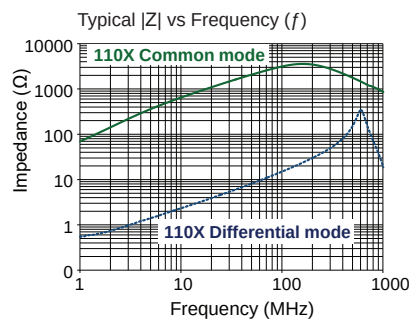


Recommended layout for solder pads

Schematic



No polarity



Part No	Impedance Z (Ω)		f _z (MHz)	Inductance L (μH)		f _L (kHz)	Tol ± (%)	Leakage Inductance (μH) typ	Capacitance Ref. (pF)	DCR max (Ω)	Rated DC Current (mA)
	min	typ									
1210CMF-110X-YY	300	550	10 MHz @ 0.1 V	11		100 kHz @ 0.1 V	+50/-30	0.10	12	0.40	300
1210CMF-800X-YY	1000	2600	10 MHz @ 0.1 V	80		100 kHz @ 0.1 V	+50/-30	0.13	12	2.00	200
1210CMF-101X-YY	3500	5100	10 MHz @ 0.1 V	100		100 kHz @ 0.1 V	+50/-30	0.13	12	2.30	150

Core Material: Ferrite
Top Material: Magnetically shielded

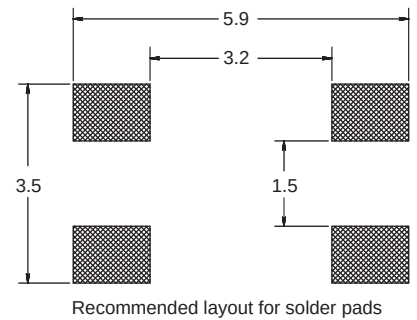
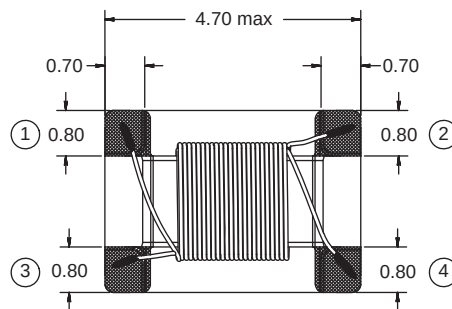
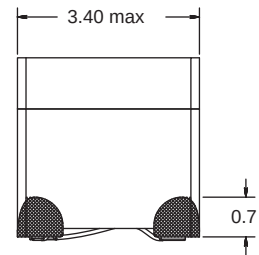
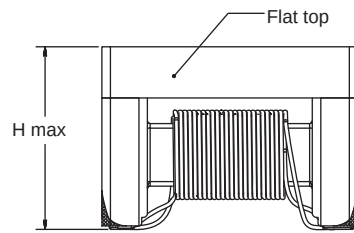
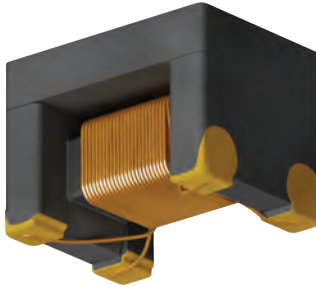
Revision date: 18 Jul 2023

SPQ: Taped / Reel 600 [-01]
2700 [-04]

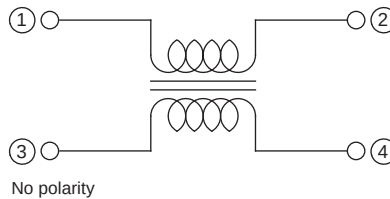
Remarks: - Rated Volt = 80 Vdc.
- Insulation Resistance = 10 MΩ min.

1812 CMF

Common Mode Filter
CAN bus

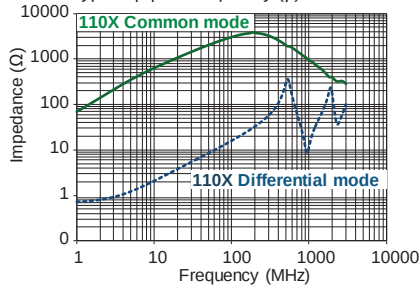


Schematic



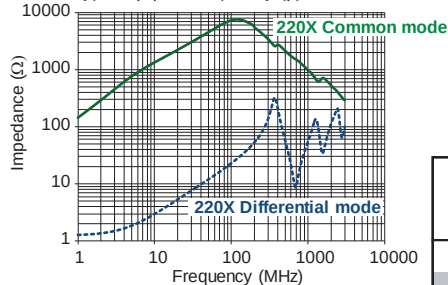
1812CMF-110X

Typical |Z| vs Frequency (f)



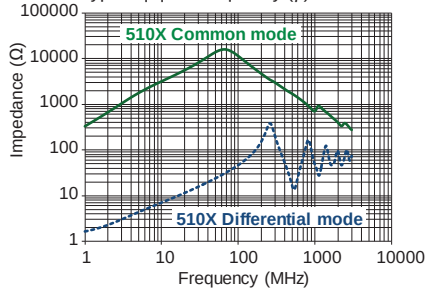
1812CMF-220X

Typical |Z| vs Frequency (f)



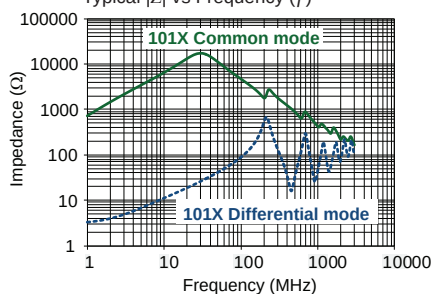
1812CMF-510X

Typical |Z| vs Frequency (f)



1812CMF-101X

Typical |Z| vs Frequency (f)



Part No	Impedance Z (Ω)		f _z (MHz)	Inductance L (μH)	Tol ± (%)	f _L (kHz)	Leakage Inductance (μH) typ	DCR max (Ω)	Rated DC Current (mA)	Dimension H max
	min	typ								
1812CMF-110X-YY	300	600	10	11	+50/-30	100	0.05	0.5	250	3.15
1812CMF-220X-YY	500	1200	10	22	+50/-30	100	0.08	0.7	200	3.15
1812CMF-510X-YY	1000	2800	10	51	+50/-30	100	0.15	0.9	200	3.15
* 1812CMF-101X-YY	2000	5800	10	100	+50/-30	100	0.20	2.0	150	3.25

Core Material: Ferrite

Top Material: Magnetically shielded

SPQ: Taped / Reel 600 [-01]
2200 [-04]

Remarks: - Unlisted inductance values available upon request.

- Rated Volt = 50 Vdc.

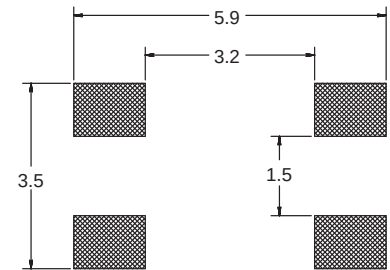
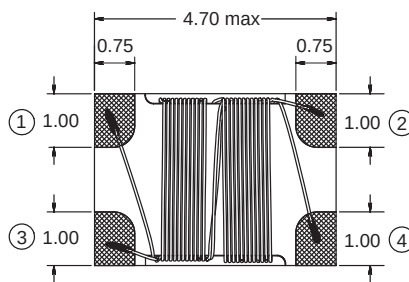
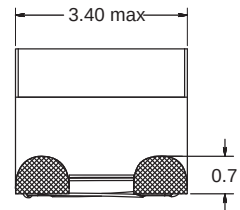
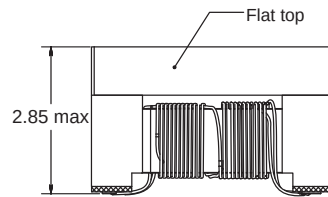
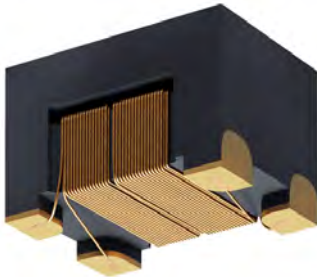
- Insulation Resistance = 10 MΩ min.

- * indicated approved according to IEC62228-3, Annex D and CiA 110.

Revision date: 25 May 2022

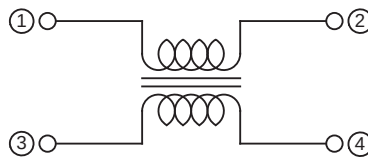
1812 CMF/E

Common Mode Filter
Ethernet

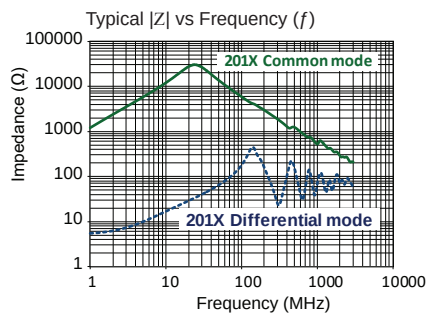


Recommended layout for solder pads

Schematic



No polarity



Part No	Impedance $ Z $ (Ω)		f_z (MHz)	Inductance L (μH)	Tol ± (%)	f_L (kHz)	DCR max (Ω)	Rated DC Current (mA)
	min	typ						
1812CMF/E-201X-YY	6000	10000	10	200	+30/-10	100	4.5	200

Core Material: Ferrite

Top Material: Magnetically shielded

Revision date: 27 Jan 2022

SPQ: Taped / Reel 600 [-01]
2200 [-04]

Remarks: - Rated Volt = 50 Vdc.

- Insulation Resistance = 10 MΩ min.

Transponder Coils (for RFID)

Our surface mount transponder coil series are wire wound. They cover a wide range of electrical performances. The coil axis's length and cross section area are optimized for sensitivity. Customized inductance values are available upon request.

Applications Used for wireless data transmission in low frequency RFID products, such as immobilizers, TPMS, and keyless entry. Other industrial applications include access control and tracking devices.

Technical Data	L – Value (rated inductance)	Measured with Bode 100 Vector Network Analyzer or equivalent at frequency f_L
	Q – Factor (min)	Measured with Bode 100 Vector Network Analyzer or equivalent at frequency f_Q
	SRF (min)	Measured with HP 8753ES Network Analyzer or equivalent
	DCR (max)	Measured at 25°C
	Operating Temperature	-40°C to +150°C: AQ -40°C to +125°C: FTC, AFTC & AF
	Pad Metallization	Gold flash as top layer
	Wire Termination	Spot welding
	Recommended Soldering Method	Reflow
	Moisture Sensitivity Levels (MSL)	MSL Level 1, indicating unlimited floor life at $\leq 30^\circ\text{C}$ / 85% relative humidity
	Solderability	Using lead free solder (Sn 99.9) at $260^\circ\text{C} \pm 5^\circ\text{C}$ for 5 ± 0.5 seconds, min 90% solder coverage of metallization Standard: IEC 68-2-20 (Ta)
	Resistance to Soldering Heat	Resistant to $260^\circ\text{C} \pm 5^\circ\text{C}$ for 10 ± 1 second Standard: IEC 68-2-20 (Tb)
	Resistance to Solvent	Resistant to isopropyl alcohol for 5 ± 0.5 minutes at $23^\circ\text{C} \pm 5^\circ\text{C}$ Standard: IEC 68-2-45
	Climatic Test	Defined by the following standards: IEC 68-2-1 for cold test: -40°C for 96 hours IEC 68-2-2 for dry heat test: 125°C for 96 hours IEC 60068-2-78 for humidity test: 40°C at RH 95% for 4 days
	Thermal Shock Test	Temperature cycle: -40°C to $+125^\circ\text{C}$ to -40°C Max/Min temperature duration: 15 min Temperature transition duration: 5 min Cycles: 25 Standard: MIL-STD-202G
	Adhesion of Soldered Component (Shear Test)	Components withstand a pushing force of 10N for 10 ± 1 seconds Standard: IEC 60068-2-21, method Ue ₃
	Mechanical Shock	Mil-Std 202 Method 213 Condition C 3 axis, 6 times, total 18 shocks 100 G, 6 ms, half-sine
	Vibration	Mil-Std 202 Method 204 20 mins at 5G 10 Hz to 2000 Hz 12 cycles each of 3 orientations

Ordering Code Example: 4408AF-371X-YY

4408 AF - 371 X - YY ➔ 4408AF-371K-04
(Case Size) (Core Type) (Inductance Value) (Tolerance) (Packaging Code)

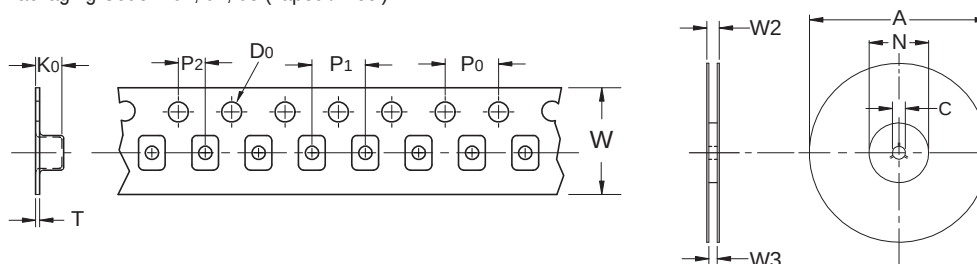
Case Size - 1210, 1812, 4408

Core Type - FTC (Ferrite), AFTC (Ceramic & Ferrite), AF/AQ (Ceramic & Ferrite)

Tolerances - J ($\pm 5\%$), K ($\pm 10\%$)

Packaging Code - 01, 04, 08 (Taped / Reel)

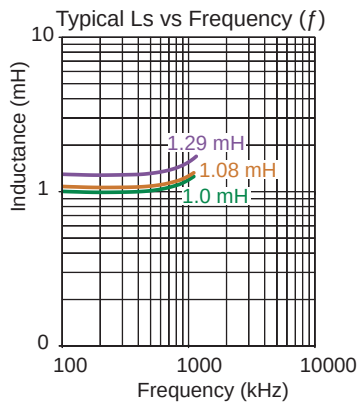
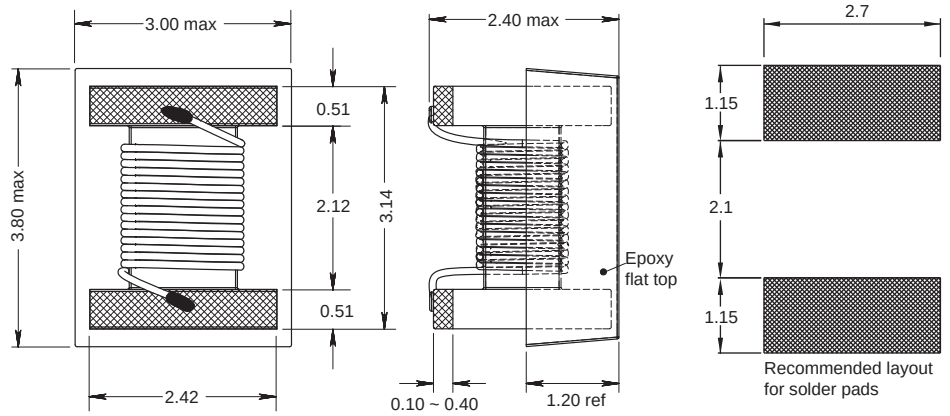
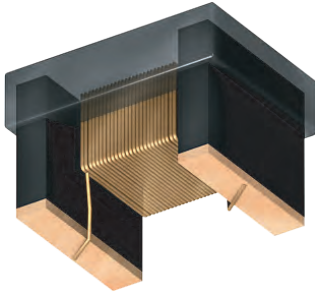
Packaging Specification Schematic



Type	Packing Code	A	D0	N	C	W2	W3	W	P1	P0	P2	K0	T
1210 FTC	01	180	1.55	60	13	18.4	15.4	12	8	4	2	2.55	0.30
1210 FTC	04	330	1.55	100	13	18.4	12.4	12	8	4	2	2.55	0.30
1812 AFTC	01	180	1.50	60	13	18.4	15.4	12	8	4	2	3.70	0.35
1812 AFTC	04	330	1.50	100	13	18.4	12.4	12	8	4	2	3.70	0.35
4408 AF/AQ	04/08	330	1.55	100	13	30.4	24.5	24	8	4	2	2.70	0.30

1210 FTC

Transponder Coil
Engineer's Kit: EK-1210FTC-X



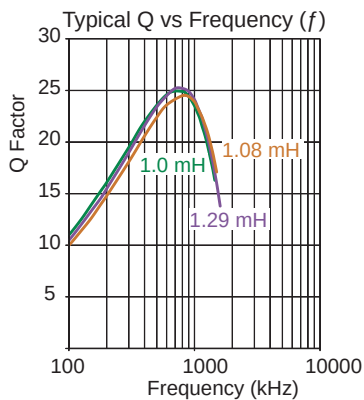
Part No	Inductance L (mH)	f_L (kHz)	Tol $\pm$ (%)	Q min	f_Q (kHz)	SRF typ (MHz)	DCR max (Ω)	Sensitivity mV/ μ T
1210FTC-102K-YY	1.00	125	10	8	125	1.7	32.0	10
1210FTC-112K-YY	1.08	125	10	8	125	1.7	42.0	12
1210FTC-132K-YY	1.29	125	10	8	125	1.7	46.5	12

Core Material: Ferrite

Revision date: 29 Nov 2023

SPQ: Taped / Reel 800 [-01]
3000 [-04]

Remarks: - Unlisted inductance values available upon request.
- 5% tolerance available upon request.



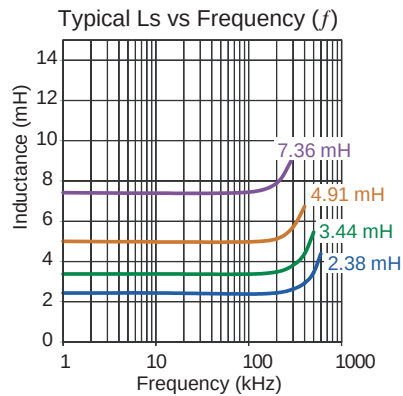
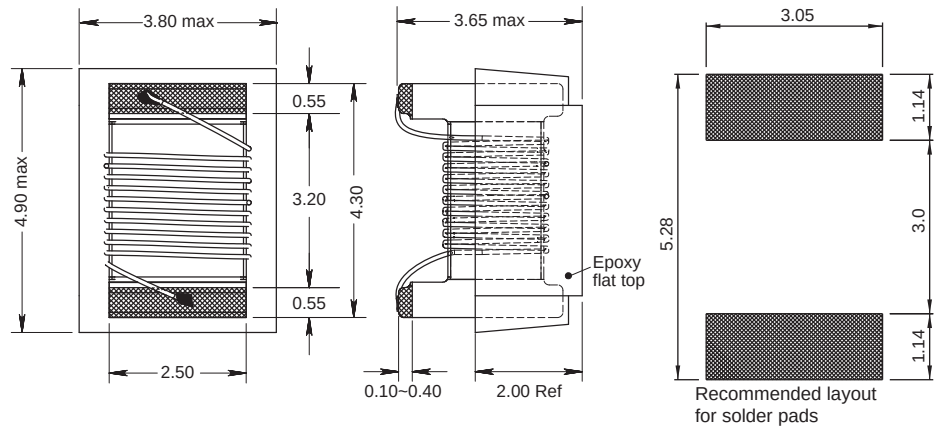
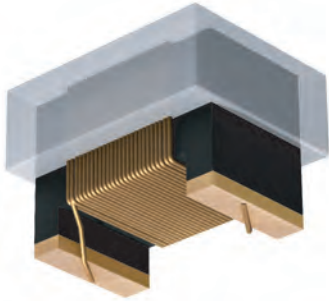
(for RFID)

Transponder Coils

1812 AFTC



Transponder Coil
Engineer's Kit: EK-1812AFTC-X



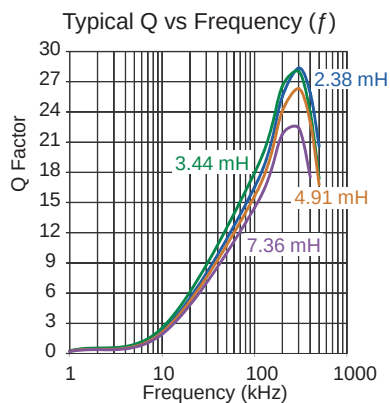
Part No	Inductance L (mH)	f_L (kHz)	Tol $\pm$ (%)	Q typ	f_Q (kHz)	SRF min (kHz)	DCR max (Ω)	Sensitivity mV/ μ T
1812AFTC-401K-YY	0.40	125	10	18	125	1800	12.4	7
1812AFTC-102K-YY	1.00	125	10	13	125	1300	48	18
1812AFTC-242K-YY	2.38	125	10	19	125	650	75	40
1812AFTC-292K-YY	2.89	125	10	19	125	620	80	40
1812AFTC-342K-YY	3.44	125	10	19	125	600	90	45
1812AFTC-412K-YY	4.15	125	10	19	125	600	120	54
1812AFTC-492K-YY	4.91	125	10	18	125	560	155	65
1812AFTC-602K-YY	6.00	125	10	18	125	530	170	81
1812AFTC-722K-YY	7.20	125	10	16	125	470	250	103
1812AFTC-742K-YY	7.36	125	10	16	125	470	250	103

Core Material: Ceramic & Ferrite

Revision date: 29 Nov 2023

SPQ: Taped / Reel 600 [-01]
2200 [-04]

Remarks: - Unlisted inductance values available upon request.
- 2% and 5% tolerance available upon request.

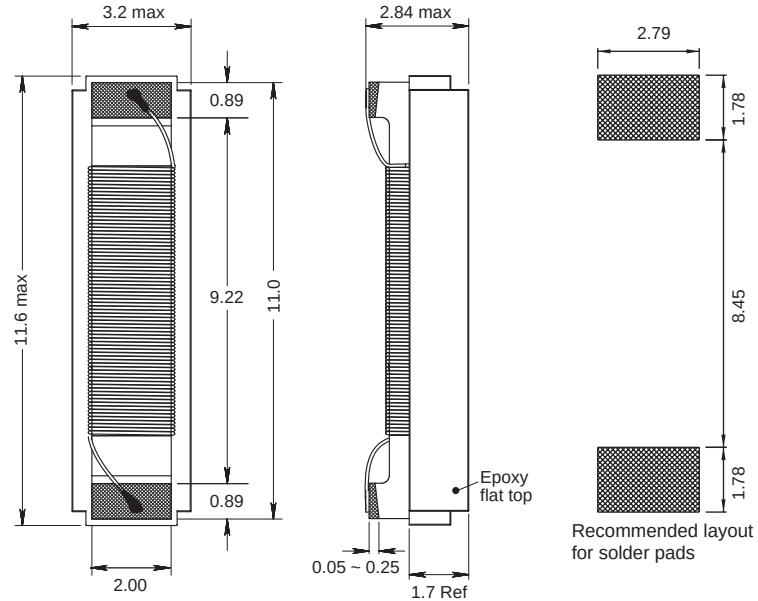
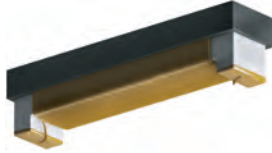


4408 AF

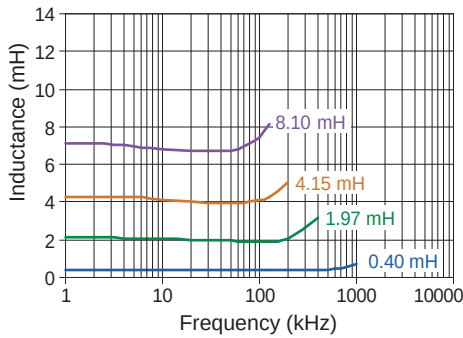


Transponder Coil

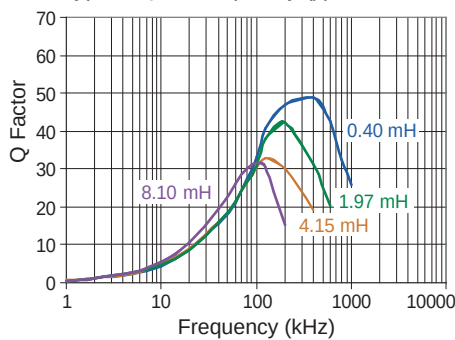
Engineer's Kit: EK-4408AF-X



Typical L_s vs Frequency (f)



Typical Q vs Frequency (f)



Part No	Inductance L (mH)	f_L (kHz)	Tol $\pm$ (%)	Q min	f_Q (kHz)	SRF ref (kHz)	DCR max (Ω)	Sensitivity (mV/ μ T)
4408AF-191K-YY	0.19	125	10	40	125	1700	2.5	6
4408AF-371K-YY	0.37	125	10	27	125	1200	6.4	9
4408AF-401K-YY	0.40	125	10	27	125	1100	6.8	9
4408AF-421K-YY	0.42	125	10	27	125	1100	8.1	9
4408AF-511K-YY	0.51	125	10	27	125	1000	8.5	11
4408AF-701K-YY	0.70	125	10	30	125	821	12	15
4408AF-901K-YY	0.90	125	10	28	125	760	13.9	19
4408AF-102K-YY	1.00	125	10	28	125	710	15	19
4408AF-112K-YY	1.08	125	10	31	125	710	15	19
4408AF-122K-YY	1.20	125	10	30	125	710	18	24
4408AF-132K-YY	1.34	125	10	30	125	700	20	25
4408AF-202K-YY	1.97	125	10	30	125	630	29.7	32
4408AF-242K-YY	2.38	125	10	32	125	560	30.8	40
4408AF-272K-YY	2.66	125	10	35	125	530	35.2	40
4408AF-292K-YY	2.89	125	10	35	125	530	35.2	41
4408AF-332K-YY	3.30	125	10	35	125	450	48	46
4408AF-342K-YY	3.45	125	10	29	125	430	60	48
4408AF-412K-YY	4.15	125	10	29	125	400	70	57
4408AF-472K-YY	4.70	125	10	29	125	380	70	63
4408AF-482K-YY	4.80	125	10	29	125	380	80	64
4408AF-492K-YY	4.90	125	10	29	125	380	80	66
4408AF-562K-YY	5.60	125	10	28	125	350	80	75
4408AF-682K-YY	6.80	125	10	28	125	345	95	98
4408AF-702K-YY	7.00	125	10	30	125	340	100	99
4408AF-712K-YY	7.10	125	10	30	125	340	100	100
4408AF-722K-YY	7.20	125	10	30	125	335	86.4	104
4408AF-812K-YY	8.10	125	10	28	125	310	125	119
4408AF-902K-YY	9.00	125	10	28	125	310	111.6	141
4408AF-952K-YY	9.50	125	10	28	125	310	111.6	172
4408AF-103K-YY	10.0	125	10	30	125	310	111.6	175
4408AF-133K-YY	13.5	125	10	30	125	200	130	246
4408AF-163K-YY	16.2	125	10	30	125	200	175	364

Core Material: Ceramic & Ferrite

Revision date: 29 Nov 2023

SPQ: Taped / Reel 1000 [-08]
3000 [-04]

Remarks: - Unlisted inductance values available upon request.
- 2% and 5% tolerance available upon request.

(for RFID)

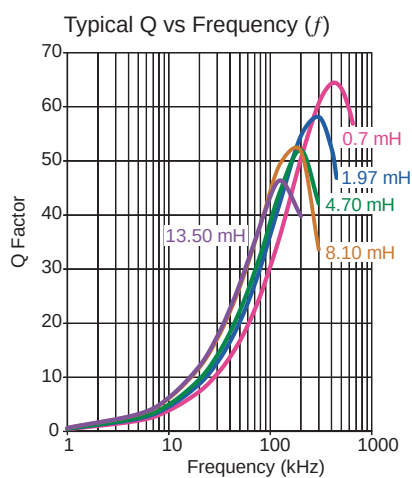
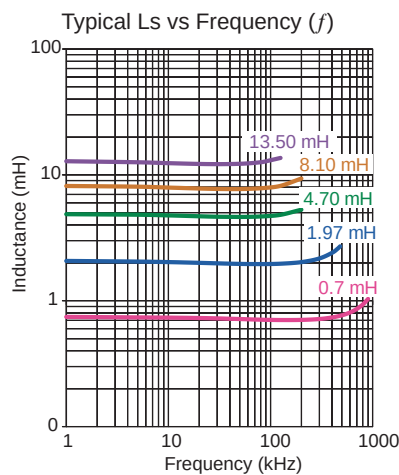
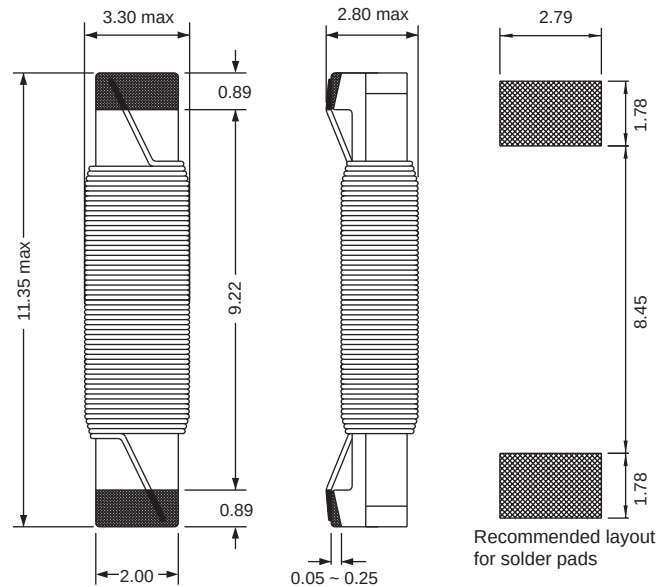
Transponder Coils

4408 AQ



Transponder Coil
Exceptionally High Q

Engineer's Kit: EK-4408AQ-X



Part No	Inductance	f_L	Tol	Q	f_Q	SRF	DCR	Sensitivity
	L (mH)	(kHz) $\pm$ (%)		min	(kHz)	ref (kHz)	max (Ω)	(mV/ μ T)
4408AQ-701J-YY	0.70	125	5	30	125	1200	12.5	17
4408AQ-901J-YY	0.90	125	5	32	125	1100	14.5	20
4408AQ-112J-YY	1.08	125	5	34	125	950	15.7	22
4408AQ-202J-YY	1.97	125	5	34	125	700	30	35
4408AQ-242J-YY	2.38	125	5	35	125	650	31.8	42
4408AQ-272J-YY	2.66	125	5	35	125	600	35.2	45
4408AQ-292J-YY	2.89	125	5	37	125	600	35.8	48
4408AQ-332J-YY	3.30	125	5	38	125	600	43.5	55
4408AQ-472J-YY	4.70	125	5	37	125	429	68	71
4408AQ-482J-YY	4.80	125	5	37	125	433	70	74
4408AQ-492J-YY	4.90	125	5	37	125	429	71	74
4408AQ-562J-YY	5.60	125	5	37	125	404	77	86
4408AQ-682J-YY	6.80	125	5	41	125	393	85	111
4408AQ-702J-YY	7.00	125	5	41	125	393	85	118
4408AQ-712J-YY	7.10	125	5	41	125	382	88	123
4408AQ-722J-YY	7.20	125	5	40	125	381	88	119
4408AQ-812J-YY	8.10	125	5	41	125	368	94	126
4408AQ-902J-YY	9.00	125	5	41	125	354	95	133
4408AQ-952J-YY	9.50	125	5	39	125	339	114	173
4408AQ-103J-YY	10.00	125	5	39	125	330	116	214
4408AQ-133J-YY	13.50	125	5	38	125	285	138	267

Core Material: Ceramic & Ferrite

Revision date: 29 Nov 2023

SPQ: Taped / Reel 1000 [-08]
3000 [-04]

Remarks: - Unlisted inductance values available upon request.
- 2% tolerance available upon request.

Leaded Inductors (Fixed Choke Coils)

FASTRON's leaded inductors come with a very wide inductance range from 0.1μH to 100000μH and with high Q values. They are available in tape and ammpack packaging.

Applications

These components are suitable for decoupling and interference suppression.

Communication: RF blocking and filtering.

Others: Automotive electronics, electronic household appliances, entertainment electronics, lighting devices, and medical applications.

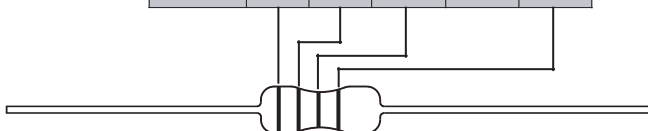
Technical Data

L – Value (rated inductance)	Measured with Bode 100 Vector Network Analyzer or equivalent at frequency f_L
Q – Factor (min)	Measured with Bode 100 Vector Network Analyzer or equivalent at frequency f_Q
SRF (min)	Measured with HP 8753ES Network Analyzer or equivalent
DCR (max)	Measured at 25°C
Rated DC Current	I based on temperature rise, determined at the point where the temperature rise does not exceed 40°C above the ambient temperature of 25°C I1 Current based on ambient temperature of 40°C and component temperature of max. 125°C Isat Current based on inductivity drop of 10% related to the unloaded inductivity
Operating Temperature	-55°C to +125°C (including component self-heating)
Recommended Soldering Method	Wave
Solderability	Using lead free solder (Sn 99.9) at 260°C ± 5°C for 5 ± 0.5 seconds, min 90% solder coverage of metallization Standard: IEC 68-2-20 (Ta)
Resistance to Soldering Heat	Resistant to 260°C ± 5°C for 10 ± 1 seconds Standard: IEC 68-2-20 (Tb)
Resistance to Solvent	Resistant to Isopropyl alcohol for 5 ± 0.5 minutes at 23°C ± 5°C Standard: IEC 68-2-45
Climatic Test	Defined by the following standards: IEC 68-2-1 for Cold test: -55°C for 96 hours IEC 68-2-2 for Dry heat test: +125°C for 96 hours IEC 60068-2-78 for Humidity test: 40°C at RH 95% for 4 days
Tensile Strength of Leads (Pull Test)	Components withstand a pulling force of minimum 10N for 10 ± 1 second For MICC, MICCS (lead diameter 0.5mm): Components withstand a pulling force of minimum 5N for 10 ± 1 second Both values in accordance with IEC 60068-2-21 (Ua1)
Mechanical Shock	Mil-Std 202 Method 213 Condition C 3 axis, 6 times, total 18 shocks 100 G, 6 ms, half-sine
Vibration	Mil-Std 202 Method 204 20 mins at 5G 10 Hz to 2000 Hz 12 cycles each of 3 orientations

Technical Data

Colour Coding Reference according to IEC 60062 :

L (μH) Code	Nominal Inductance (μH)				Tol. ** code
	Band 1	Band 2	Band 3	Band 4	
Gold	---	---	x 0.1	± 5 %	J
Silver	---	---	x0.01	± 10 %	K
Clear	---	---	---	± 20 %	M
Black	---	0	x1	---	---
Brown	1	1	x10	± 1 %	F
Red	2	2	x100	± 2 %	G
Orange	3	3	x1000	± 3 %	A
Yellow	4	4	x10000	---	---
Green	5	5	---	---	---
Blue	6	6	---	---	---
Violet	7	7	---	---	---
Grey	8	8	---	---	---
White	9	9	---	---	---



Ordering Code

Example: **SMCC-180X-YY**

SMCC - 180 X - YY
(Model) (Inductance Value) (Tolerance) (Packaging Code)

↓
SMCC-180K-01

Core Type - Ferrite, Phenolic

Tolerances - F (±1%), G (±2%), H (±2.5%), A (±3%), J (±5%), K (±10%), M (±20%)

Packaging Code

Packaging Form	Taped / Reel	Taped / Ammo pack
Axial	01	02
Radial	31	32

Packaging
Specification

Fig. 1: On Reel (Plastic)
Packaging code: 01, 31

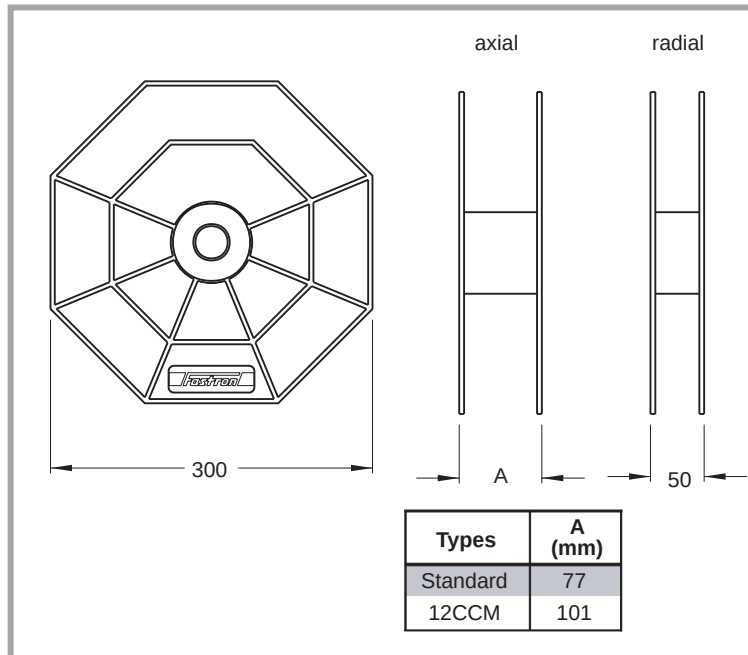


Fig. 2: Ammo pack, axial
Packaging code: 02

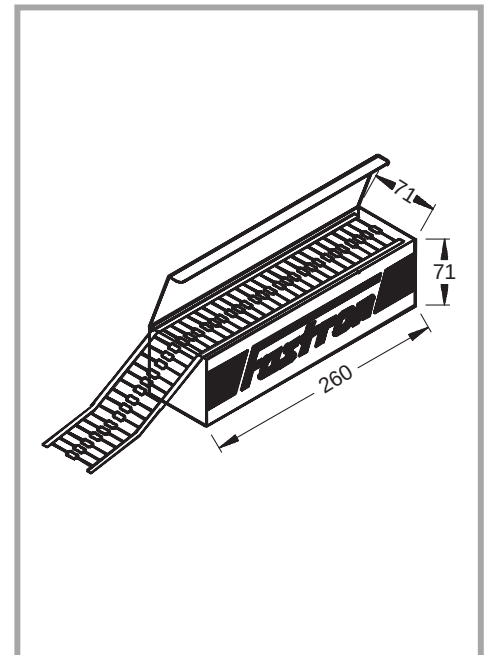


Fig. 3: Axial Standard Taping
Packaging code: 01, 02

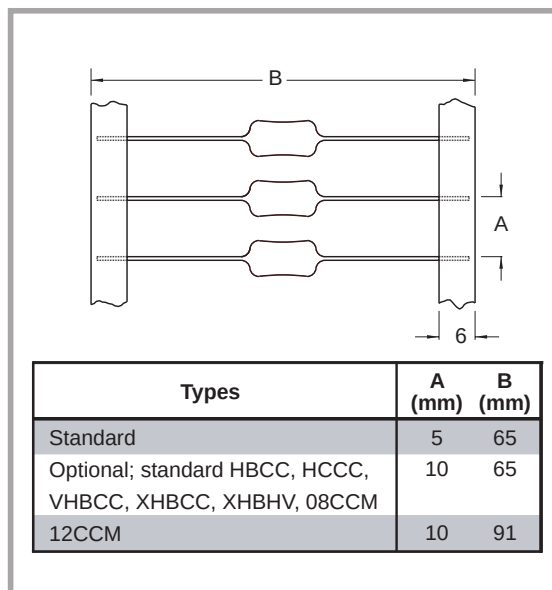
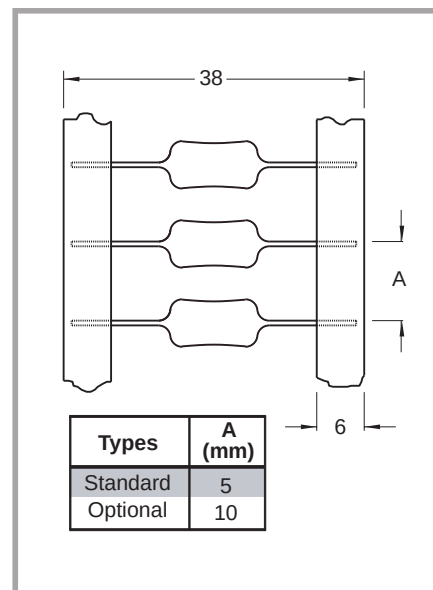


Fig. 4: Axial Narrow Taping (38mm)
Packaging code: 11, 12



Packaging Specification

Fig. 5: Radial Taping
Packaging code: 31, 32

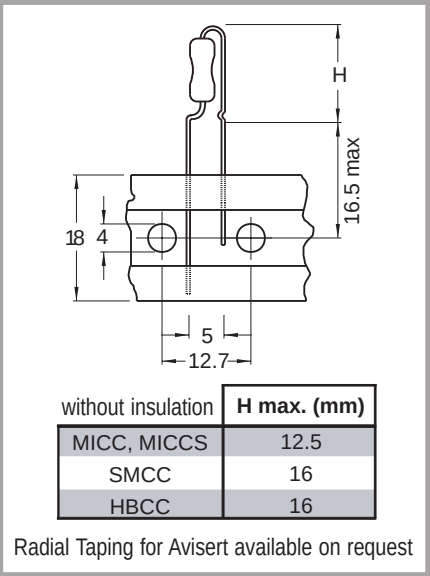


Fig. 6: Ammo pack, radial
Packaging code: 32

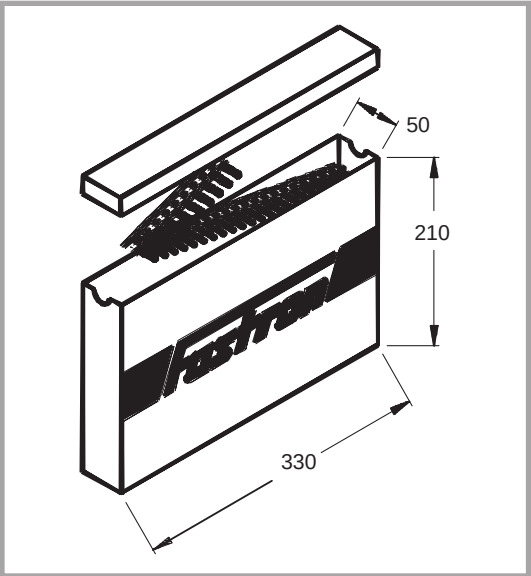
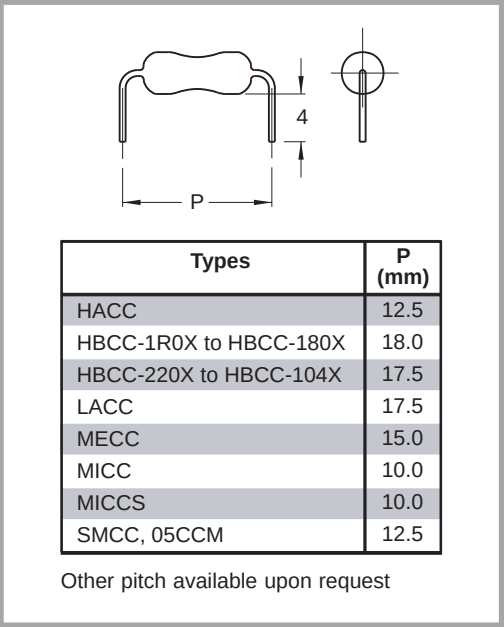


Fig. 7: Axial preformed
Packaging code: 20



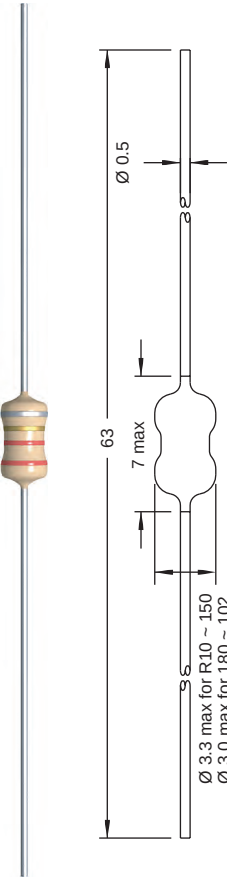
Packaging Specification

MICC

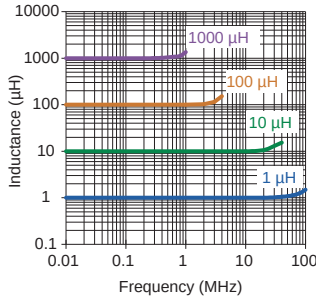


(Fixed Choke Coils)

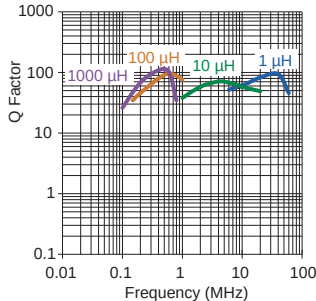
Leaded Inductors / Medical Applications



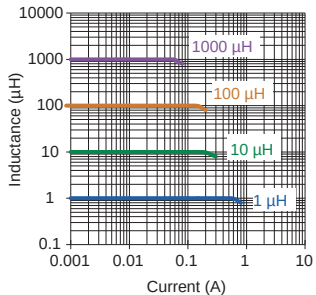
Typical L_s vs Frequency (f)



Typical Q vs Frequency (f)



Typical L_s vs Current (I)



Medical applications (non-magnetic)

Part No	Inductance L (μH)	f_L (MHz)	Tol ± (%)	Q min	f_Q (MHz)	SRF min (MHz)	DCR max (Ω)	Rated DC Current (A)	Core Material
MICC-R10X-YY	0.10	1	10, 20	35	25.2	600	0.11	1.10	Phenolic
MICC-R11X-YY	0.11	1	10, 20	35	25.2	570	0.12	1.10	Phenolic
MICC-R12X-YY	0.12	1	10, 20	35	25.2	570	0.12	1.08	Phenolic
MICC-R15X-YY	0.15	1	10, 20	35	25.2	500	0.13	1.02	Phenolic
MICC-R18X-YY	0.18	1	10, 20	35	25.2	460	0.14	1.00	Phenolic
MICC-R20X-YY	0.20	1	10, 20	35	25.2	420	0.16	0.99	Phenolic
MICC-R22X-YY	0.22	1	10, 20	35	25.2	420	0.16	0.99	Phenolic
MICC-R27X-YY	0.27	1	10, 20	35	25.2	380	0.17	0.91	Phenolic
MICC-R33X-YY	0.33	1	10, 20	35	25.2	330	0.20	0.83	Phenolic
MICC-R39X-YY	0.39	1	10, 20	35	25.2	300	0.22	0.79	Phenolic
MICC-R47X-YY	0.47	1	10, 20	35	25.2	280	0.25	0.75	Phenolic
MICC-R56X-YY	0.56	1	10, 20	35	25.2	260	0.28	0.70	Phenolic
MICC-R68X-YY	0.68	1	10, 20	35	25.2	240	0.48	0.53	Phenolic
MICC-R82X-YY	0.82	1	10, 20	35	25.2	230	0.55	0.50	Phenolic
MICC-1R0X-YY	1.0	1	5, 10 ,20	35	25.2	180	0.25	0.63	Ferrite
MICC-1R2X-YY	1.2	1	5, 10 ,20	40	7.96	170	0.25	0.61	Ferrite
MICC-1R3X-YY	1.3	1	5, 10 ,20	40	7.96	170	0.25	0.61	Ferrite
MICC-1R5X-YY	1.5	1	5, 10 ,20	40	7.96	150	0.30	0.57	Ferrite
MICC-1R8X-YY	1.8	1	5, 10 ,20	40	7.96	130	0.30	0.54	Ferrite
MICC-2R2X-YY	2.2	1	5, 10 ,20	40	7.96	120	0.35	0.52	Ferrite
MICC-2R4X-YY	2.4	1	5, 10 ,20	40	7.96	110	0.40	0.48	Ferrite
MICC-2R7X-YY	2.7	1	5, 10 ,20	40	7.96	110	0.40	0.48	Ferrite
MICC-3R3X-YY	3.3	1	5, 10 ,20	40	7.96	110	0.50	0.42	Ferrite
MICC-3R9X-YY	3.9	1	5, 10 ,20	40	7.96	100	0.55	0.40	Ferrite
MICC-4R0X-YY	4.0	1	5, 10 ,20	40	7.96	90	0.65	0.38	Ferrite
MICC-4R4X-YY	4.4	1	5, 10 ,20	40	7.96	90	0.65	0.38	Ferrite
MICC-4R7X-YY	4.7	1	5, 10 ,20	40	7.96	90	0.65	0.38	Ferrite
MICC-4R9X-YY	4.9	1	5, 10 ,20	40	7.96	90	0.65	0.38	Ferrite
MICC-5R0X-YY	5.0	1	5, 10 ,20	45	7.96	75	1.30	0.26	Ferrite
MICC-5R6X-YY	5.6	1	5, 10 ,20	45	7.96	75	1.30	0.26	Ferrite
MICC-6R2X-YY	6.2	1	5, 10 ,20	45	7.96	70	1.45	0.25	Ferrite
MICC-6R8X-YY	6.8	1	5, 10 ,20	45	7.96	70	1.45	0.25	Ferrite
MICC-8R2X-YY	8.2	1	5, 10 ,20	50	7.96	65	1.60	0.24	Ferrite
MICC-100X-YY	10	1	5, 10 ,20	50	7.96	60	1.70	0.23	Ferrite
MICC-120X-YY	12	0.02	5, 10 ,20	50	2.52	50	2.40	0.19	Ferrite
MICC-150X-YY	15	0.02	5, 10 ,20	50	2.52	45	2.70	0.185	Ferrite
MICC-180X-YY	18	0.02	5, 10 ,20	60	2.52	14	0.81	0.350	Ferrite
MICC-220X-YY	22	0.02	5, 10 ,20	60	2.52	12	0.90	0.335	Ferrite
MICC-270X-YY	27	0.02	5, 10 ,20	60	2.52	11	1.00	0.315	Ferrite
MICC-330X-YY	33	0.02	5, 10 ,20	60	2.52	10	1.12	0.300	Ferrite
MICC-390X-YY	39	0.02	5, 10 ,20	60	2.52	8.5	1.21	0.285	Ferrite
MICC-470X-YY	47	0.02	5, 10 ,20	60	2.52	7.7	2.40	0.200	Ferrite
MICC-560X-YY	56	0.02	5, 10 ,20	60	2.52	6.8	2.60	0.195	Ferrite
MICC-620X-YY	62	0.02	5, 10 ,20	60	2.52	5.7	2.90	0.185	Ferrite
MICC-680X-YY	68	0.02	5, 10 ,20	60	2.52	5.7	2.90	0.185	Ferrite
MICC-820X-YY	82	0.02	5, 10 ,20	60	2.52	5.5	3.20	0.175	Ferrite
MICC-101X-YY	100	0.02	5, 10 ,20	60	2.52	5.3	3.50	0.170	Ferrite
MICC-121X-YY	120	0.02	5, 10 ,20	60	0.79	5.0	3.80	0.160	Ferrite
MICC-151X-YY	150	0.02	5, 10 ,20	60	0.79	4.6	4.30	0.150	Ferrite
MICC-181X-YY	180	0.02	5, 10 ,20	60	0.79	4.2	5.30	0.135	Ferrite
MICC-221X-YY	220	0.02	5, 10 ,20	60	0.79	3.8	5.80	0.130	Ferrite
MICC-271X-YY	270	0.02	5, 10 ,20	60	0.79	3.2	7.80	0.115	Ferrite
MICC-281X-YY	280	0.02	5, 10 ,20	60	0.79	3.2	7.80	0.115	Ferrite
MICC-331X-YY	330	0.02	5, 10 ,20	60	0.79	3.0	8.70	0.105	Ferrite
MICC-351X-YY	350	0.02	5, 10 ,20	60	0.79	2.7	8.70	0.105	Ferrite
MICC-391X-YY	390	0.02	5, 10 ,20	60	0.79	2.7	11.0	0.095	Ferrite
MICC-471X-YY	470	0.02	5, 10 ,20	60	0.79	2.3	12.0	0.090	Ferrite
MICC-561X-YY	560	0.02	5, 10 ,20	60	0.79	2.2	16.5	0.075	Ferrite
MICC-681X-YY	680	0.02	5, 10 ,20	60	0.79	2.0	22.0	0.065	Ferrite
MICC-821X-YY	820	0.02	5, 10 ,20	60	0.79	1.8	25.0	0.060	Ferrite
MICC-102X-YY	1000	0.02	5, 10 ,20	60	0.79	1.5	33.0	0.055	Ferrite

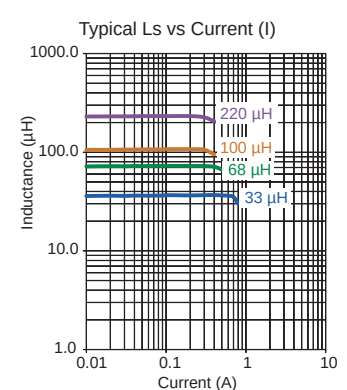
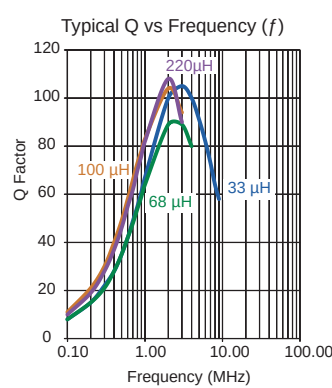
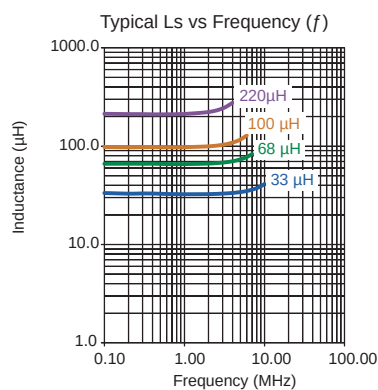
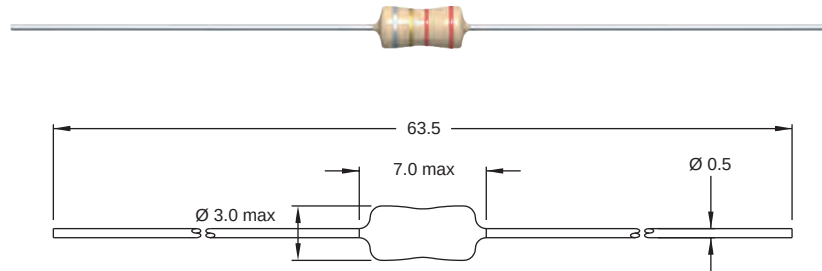
SPQ:	Packaging Form	Taped / Reel	Taped / Ammo pack
	Axial	4000 [-01]	1500 [-02]
	Radial	2000 [-31]	3500 [-32]

Revision date: 08 Feb 2021

Remarks: MICC-R10X to MICC-R82X are suitable for medical applications.

MICCS

High SRF



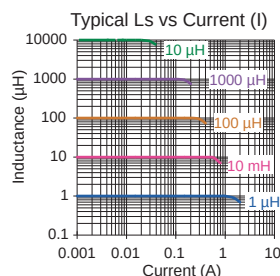
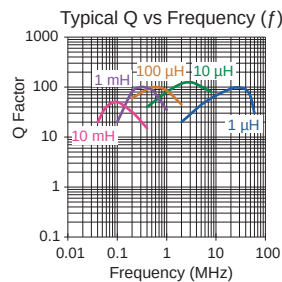
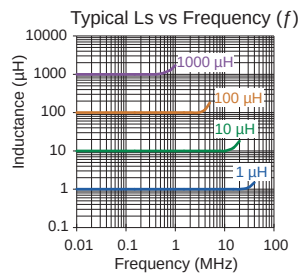
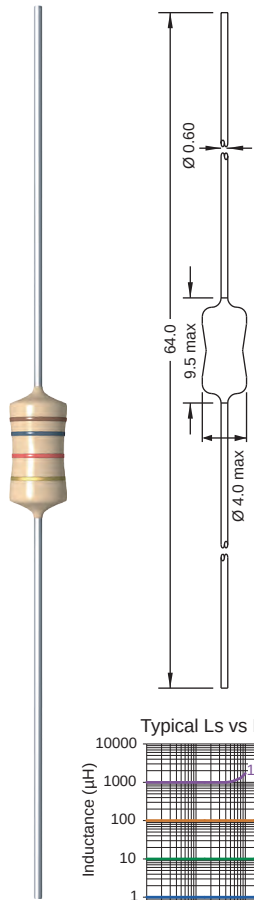
Part No	Inductance	f _L (MHz)	Tol ± (%)	Q min	f _Q (MHz)	SRF min (MHz)	DCR max (Ω)	Rated DC Current (mA)
	L (µH)							
MICCS-270X-YY	27	0.02	5, 10 ,20	60	2.52	26	3.10	195
MICCS-330X-YY	33	0.02	5, 10 ,20	60	2.52	24	3.30	190
MICCS-360X-YY	36	0.02	5, 10 ,20	60	2.52	17	3.30	185
MICCS-390X-YY	39	0.02	5, 10 ,20	60	2.52	22	3.50	185
MICCS-470X-YY	47	0.02	5, 10 ,20	60	2.52	20	4.00	165
MICCS-560X-YY	56	0.02	5, 10 ,20	60	2.52	18	5.20	150
MICCS-680X-YY	68	0.02	5, 10 ,20	60	2.52	15	5.80	140
MICCS-820X-YY	82	0.02	5, 10 ,20	60	2.52	14	6.40	135
MICCS-860X-YY	86	0.02	5, 10 ,20	60	2.52	13	6.40	130
MICCS-101X-YY	100	0.02	5, 10 ,20	60	2.52	13	7.00	130
MICCS-121X-YY	120	0.02	5, 10 ,20	60	0.79	11	10.6	125
MICCS-151X-YY	150	0.02	5, 10 ,20	60	0.79	9.0	13.5	120
MICCS-181X-YY	180	0.02	5, 10 ,20	60	0.79	8.5	15.0	115
MICCS-221X-YY	220	0.02	5, 10 ,20	60	0.79	8.0	16.2	110
MICCS-331X-YY	330	0.02	5, 10 ,20	30	0.79	5.0	28.0	105

Core Material: Ferrite

Revision date: 08 Feb 2021

SPQ:	Packaging Form	Taped / Reel	Taped / Ammo pack
	Axial	4000 [-01]	1500 [-02]
	Radial	2000 [-31]	3500 [-32]

SMCC



SPQ:

Packaging Form	Taped / Reel
Axial	3500 [-01]
Radial	1500 [-31]
	Taped / Ammo pack
Axial	1200 [-02]
Radial	2500 [-32]

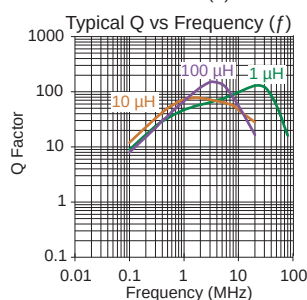
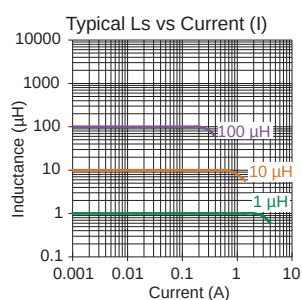
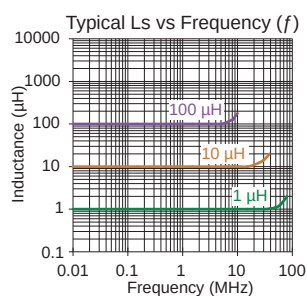
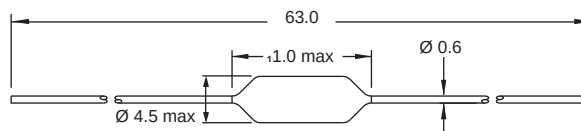
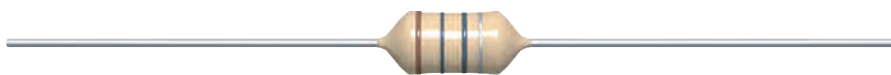
Remarks:

SMCC-R10X to SMCC-R82X are suitable for medical applications.

Medical applications (non-magnetic)

Part No	Inductance L (µH)	f_L (MHz)	Tol ± (%)	Q min	f_Q (MHz)	SRF min (MHz)	DCR max (Ω)	Rated DC Current (mA)	Core Material
SMCC-R10X-YY	0.10	1	10,20	45	25.2	380	0.08	1600	Phenolic
SMCC-R12X-YY	0.12	1	10,20	45	25.2	360	0.10	1550	Phenolic
SMCC-R15X-YY	0.15	1	10,20	45	25.2	340	0.10	1500	Phenolic
SMCC-R18X-YY	0.18	1	10,20	45	25.2	320	0.10	1480	Phenolic
SMCC-R22X-YY	0.22	1	10,20	45	25.2	300	0.10	1450	Phenolic
SMCC-R27X-YY	0.27	1	10,20	45	25.2	270	0.11	1400	Phenolic
SMCC-R33X-YY	0.33	1	10,20	45	25.2	250	0.12	1350	Phenolic
SMCC-R39X-YY	0.39	1	10,20	45	25.2	230	0.13	1300	Phenolic
SMCC-R47X-YY	0.47	1	10,20	45	25.2	220	0.14	1280	Phenolic
SMCC-R56X-YY	0.56	1	10,20	45	25.2	210	0.15	1240	Phenolic
SMCC-R68X-YY	0.68	1	10,20	45	25.2	200	0.16	1230	Phenolic
SMCC-R82X-YY	0.82	1	10,20	45	25.2	190	0.17	1210	Phenolic
SMCC-1R0X-YY	1.0	1	5,10,20	45	7.96	205	0.16	1200	Ferrite
SMCC-1R2X-YY	1.2	1	5,10,20	50	7.96	185	0.18	1150	Ferrite
SMCC-1R5X-YY	1.5	1	5,10,20	50	7.96	165	0.20	1100	Ferrite
SMCC-1R8X-YY	1.8	1	5,10,20	55	7.96	155	0.22	1030	Ferrite
SMCC-2R2X-YY	2.2	1	5,10,20	55	7.96	140	0.25	1000	Ferrite
SMCC-2R7X-YY	2.7	1	5,10,20	60	7.96	125	0.26	940	Ferrite
SMCC-3R3X-YY	3.3	1	5,10,20	60	7.96	115	0.29	900	Ferrite
SMCC-3R9X-YY	3.9	1	5,10,20	60	7.96	105	0.31	850	Ferrite
SMCC-4R7X-YY	4.7	1	5,10,20	60	7.96	95	0.34	820	Ferrite
SMCC-5R6X-YY	5.6	1	5,10,20	60	7.96	85	0.38	780	Ferrite
SMCC-6R2X-YY	6.2	1	5,10,20	65	7.96	75	0.61	670	Ferrite
SMCC-6R8X-YY	6.8	1	5,10,20	65	7.96	75	0.51	670	Ferrite
SMCC-8R2X-YY	8.2	1	5,10,20	65	7.96	50	0.48	690	Ferrite
SMCC-100X-YY	10	1	5,10,20	65	7.96	35	0.49	680	Ferrite
SMCC-120X-YY	12	0.02	5,10,20	50	2.52	30	0.55	650	Ferrite
SMCC-150X-YY	15	0.02	5,10,20	50	2.52	20	0.6	610	Ferrite
SMCC-180X-YY	18	0.02	5,10,20	50	2.52	17	0.67	580	Ferrite
SMCC-200X-YY	20	0.02	5,10,20	50	2.52	13	0.74	560	Ferrite
SMCC-220X-YY	22	0.02	5,10,20	50	2.52	13	0.74	560	Ferrite
SMCC-270X-YY	27	0.02	5,10,20	55	2.52	10	0.83	530	Ferrite
SMCC-300X-YY	30	0.02	5,10,20	55	2.52	9.00	0.92	500	Ferrite
SMCC-330X-YY	33	0.02	5,10,20	55	2.52	9.00	0.92	500	Ferrite
SMCC-390X-YY	39	0.02	5,10,20	55	2.52	8.00	1.02	470	Ferrite
SMCC-470X-YY	47	0.02	5,10,20	40	2.52	7.50	1.10	450	Ferrite
SMCC-560X-YY	56	0.02	5,10,20	40	2.52	7.00	1.23	430	Ferrite
SMCC-680X-YY	68	0.02	5,10,20	40	2.52	6.50	1.35	410	Ferrite
SMCC-820X-YY	82	0.02	5,10,20	35	2.52	6.00	1.54	390	Ferrite
SMCC-101X-YY	100	0.02	5,10,20	30	2.52	5.00	1.70	370	Ferrite
SMCC-121X-YY	120	0.02	5,10,20	70	0.79	4.50	2.40	300	Ferrite
SMCC-131X-YY	130	0.02	5,10,20	70	0.79	4.20	2.80	280	Ferrite
SMCC-151X-YY	150	0.02	5,10,20	70	0.79	4.20	2.80	280	Ferrite
SMCC-161X-YY	160	0.02	5,10,20	70	0.79	3.90	3.00	270	Ferrite
SMCC-181X-YY	180	0.02	5,10,20	70	0.79	3.90	3.00	270	Ferrite
SMCC-201X-YY	200	0.02	5,10,20	70	0.79	3.70	3.30	250	Ferrite
SMCC-221X-YY	220	0.02	5,10,20	70	0.79	3.70	3.30	250	Ferrite
SMCC-271X-YY	270	0.02	5,10,20	70	0.79	2.80	5.70	200	Ferrite
SMCC-281X-YY	280	0.02	5,10,20	70	0.79	2.80	5.70	190	Ferrite
SMCC-331X-YY	330	0.02	5,10,20	70	0.79	2.70	6.40	190	Ferrite
SMCC-351X-YY	350	0.02	5,10,20	70	0.79	2.40	6.40	180	Ferrite
SMCC-391X-YY	390	0.02	5,10,20	70	0.79	2.40	7.00	180	Ferrite
SMCC-471X-YY	470	0.02	5,10,20	70	0.79	2.20	7.90	170	Ferrite
SMCC-561X-YY	560	0.02	5,10,20	60	0.79	2.00	8.80	160	Ferrite
SMCC-681X-YY	680	0.02	5,10,20	55	0.79	1.90	10.0	150	Ferrite
SMCC-821X-YY	820	0.02	5,10,20	55	0.79	1.60	12.0	140	Ferrite
SMCC-102X-YY	1000	0.02	5,10,20	50	0.79	1.60	14.0	130	Ferrite
SMCC-122X-YY	1200	0.02	5,10,20	50	0.25	1.30	16.9	120	Ferrite
SMCC-152X-YY	1500	0.02	5,10,20	40	0.25	1.25	21.6	100	Ferrite
SMCC-182X-YY	1800	0.02	5,10,20	40	0.25	1.20	24.0	95	Ferrite
SMCC-202X-YY	2000	0.02	5,10,20	40	0.25	1.10	32.1	80	Ferrite
SMCC-222X-YY	2200	0.02	5,10,20	40	0.25	1.10	34.7	80	Ferrite
SMCC-272X-YY	2700	0.02	5,10,20	40	0.25	1.00	40.0	75	Ferrite
SMCC-332X-YY	3300	0.02	5,10,20	40	0.25	0.90	59.5	62	Ferrite
SMCC-352X-YY	3500	0.02	5,10,20	40	0.25	0.70	59.5	59	Ferrite
SMCC-392X-YY	3900	0.02	5,10,20	40	0.25	0.80	66.0	59	Ferrite
SMCC-472X-YY	4700	0.02	5,10,20	40	0.25	0.70	74.0	55	Ferrite
SMCC-502X-YY	5000	0.02	5,10,20	30	0.25	0.55	70.0	40	Ferrite
SMCC-562X-YY	5600	0.02	5,10,20	30	0.25	0.55	70.0	40	Ferrite
SMCC-682X-YY	6800	0.02	5,10,20	30	0.25	0.50	95.0	35	Ferrite
SMCC-812X-YY	8100	0.02	5,10,20	30	0.25	0.40	95.0	30	Ferrite
SMCC-822X-YY	8200	0.02	5,10,20	30	0.25	0.40	95.0	30	Ferrite
SMCC-103X-YY	10000	0.02	5,10,20	20	0.10	0.35	115.0	25	Ferrite

MECC



Single layer (typ)

Part No	Inductance L (µH)	f _L (MHz)	Tol ± (%)	Q min	f _q (MHz)	SRF min (MHz)	DCR max (Ω)	Rated DC Current (A)
MECC-1R0X-YY	1.0	1	10,20	60	7.96	180	0.13	1.80
MECC-1R2X-YY	1.2	1	10,20	60	7.96	165	0.14	1.75
MECC-1R5X-YY	1.5	1	10,20	60	7.96	148	0.16	1.40
MECC-1R8X-YY	1.8	1	10,20	50	7.96	140	0.18	1.30
MECC-2R2X-YY	2.2	1	10,20	50	7.96	122	0.20	1.25
MECC-2R7X-YY	2.7	1	10,20	50	7.96	112	0.24	1.10
MECC-3R3X-YY	3.3	1	10,20	50	7.96	104	0.28	0.95
MECC-3R9X-YY	3.9	1	10,20	50	7.96	95	0.35	0.90
MECC-4R7X-YY	4.7	1	10,20	50	7.96	90	0.39	0.625
MECC-5R6X-YY	5.6	1	10,20	45	7.96	84	0.42	0.600
MECC-6R8X-YY	6.8	1	10,20	45	7.96	76	0.48	0.575
MECC-8R2X-YY	8.2	1	10,20	45	7.96	72	0.60	0.550
MECC-100X-YY	10	1	10,20	45	2.52	63	0.96	0.525
MECC-120X-YY	12	0.02	10,20	45	2.52	57	1.02	0.515
MECC-150X-YY	15	0.02	10,20	45	2.52	54	1.20	0.500
MECC-180X-YY	18	0.02	10,20	45	2.52	50	1.32	0.450
MECC-220X-YY	22	0.02	10,20	50	2.52	45	1.90	0.425
MECC-270X-YY	27	0.02	10,20	60	2.52	41	2.20	0.40
MECC-330X-YY	33	0.02	10,20	60	2.52	37	3.00	0.36
MECC-390X-YY	39	0.02	10,20	60	2.52	35	3.40	0.30
MECC-470X-YY	47	0.02	10,20	60	2.52	33	4.50	0.27
MECC-560X-YY	56	0.02	10,20	60	2.52	32	4.70	0.25
MECC-680X-YY	68	0.02	10,20	70	2.52	28	6.00	0.22
MECC-820X-YY	82	0.02	10,20	70	2.52	26	7.80	0.18
MECC-101X-YY	100	0.02	10,20	70	2.52	23	14.0	0.14
MECC-121X-YY	120	0.02	10,20	30	0.79	21	16.0	0.11
MECC-151X-YY	150	0.02	10,20	30	0.79	20	18.0	0.09

Core Material: Ferrite

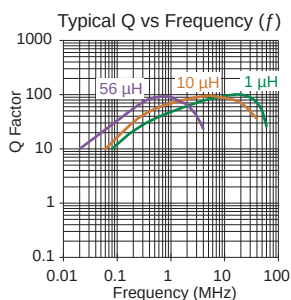
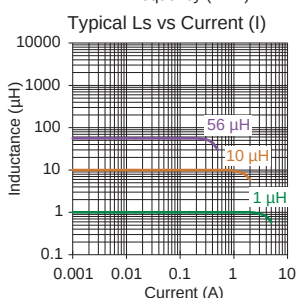
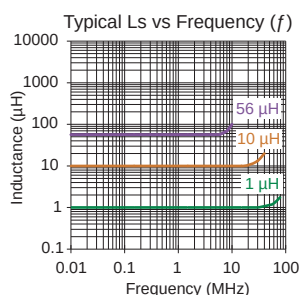
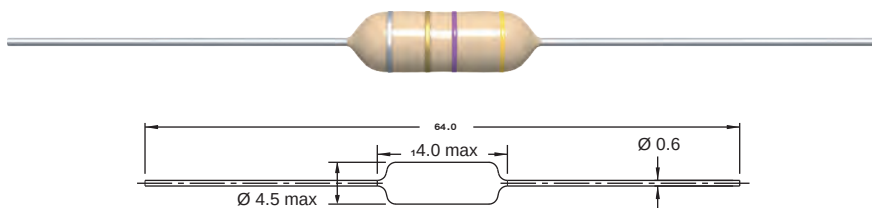
Revision date: 06 Jul 2017

SPQ:	Packaging Form	Taped / Reel	Taped / Ammo pack
	Axial	3000 [-01]	1200 [-02]

(Fixed Choke Coils)

Leaded Inductors

LACC



Single layer (typ)

Part No	Inductance L (μH)	f _L (MHz)	Tol ± (%)	Q min	f _Q (MHz)	SRF min (MHz)	DCR max (Ω)	Rated DC Current (A)
LACC-1R0X-YY	1.0	1	10,20	60	25.2	175	0.09	2.00
LACC-1R2X-YY	1.2	1	10,20	60	7.96	157	0.10	1.95
LACC-1R5X-YY	1.5	1	10,20	60	7.96	144	0.11	1.90
LACC-1R8X-YY	1.8	1	10,20	60	7.96	135	0.12	1.85
LACC-2R2X-YY	2.2	1	10,20	60	7.96	121	0.15	1.70
LACC-2R7X-YY	2.7	1	10,20	60	7.96	113	0.15	1.65
LACC-3R3X-YY	3.3	1	10,20	60	7.96	103	0.23	1.10
LACC-3R9X-YY	3.9	1	10,20	60	7.96	96	0.30	1.05
LACC-4R7X-YY	4.7	1	10,20	60	7.96	89	0.33	1.00
LACC-5R6X-YY	5.6	1	10,20	60	7.96	85	0.37	0.90
LACC-6R8X-YY	6.8	1	10,20	50	7.96	72	0.45	0.875
LACC-8R2X-YY	8.2	1	10,20	50	7.96	66	0.63	0.84
LACC-100X-YY	10	1	10,20	50	7.96	57	0.73	0.80
LACC-120X-YY	12	0.02	10,20	50	2.52	51	1.35	0.65
LACC-150X-YY	15	0.02	10,20	60	2.52	47	1.50	0.61
LACC-180X-YY	18	0.02	10,20	60	2.52	44	1.65	0.565
LACC-220X-YY	22	0.02	10,20	60	2.52	41	1.86	0.51
LACC-240X-YY	24	0.02	10,20	60	2.52	41	1.86	0.51
LACC-270X-YY	27	0.02	10,20	60	2.52	38	2.10	0.49
LACC-330X-YY	33	0.02	10,20	55	2.52	36	2.40	0.45
LACC-390X-YY	39	0.02	10,20	55	2.52	33	2.70	0.43
LACC-430X-YY	43	0.02	10,20	55	2.52	33	2.70	0.43
LACC-470X-YY	47	0.02	10,20	55	2.52	31	3.00	0.39
LACC-560X-YY	56	0.02	10,20	55	2.52	29	3.40	0.36

Core Material: Ferrite

Revision date: 11 Aug 2014

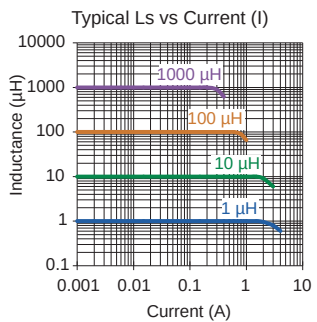
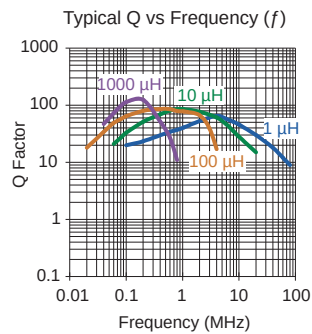
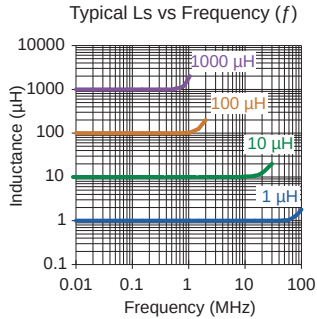
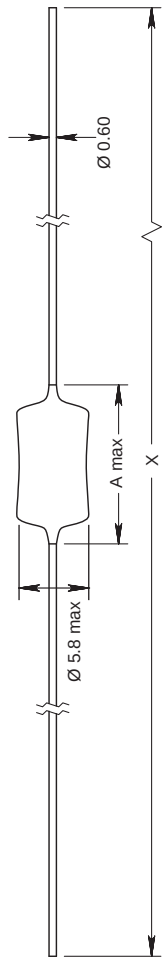
SPQ:	Packaging Form	Taped / Reel	Taped / Ammo pack
	Axial	3000 [-01]	1000 [-02]

HBCC



(Fixed Choke Coils)

Leaded Inductors



Single layer (typ)

Part No	Inductance L (μ H)	f_L (MHz)	Tol $\pm$ (%)	Q min	f_Q (MHz)	SRF min (MHz)	DCR max (Ω)	Rated DC Current (A)
HBCC-1R0X-YY	1.0	1	5,10	40	7.96	200	0.08	2.20
HBCC-1R2X-YY	1.2	1	5,10	40	7.96	185	0.09	2.15
HBCC-1R5X-YY	1.5	1	5,10	40	7.96	170	0.10	2.10
HBCC-1R8X-YY	1.8	1	5,10	40	7.96	155	0.10	2.00
HBCC-2R2X-YY	2.2	1	5,10	40	7.96	140	0.11	1.90
HBCC-2R7X-YY	2.7	1	5,10	40	7.96	130	0.12	1.80
HBCC-3R3X-YY	3.3	1	5,10	40	7.96	120	0.14	1.75
HBCC-3R9X-YY	3.9	1	5,10	40	7.96	110	0.15	1.70
HBCC-4R7X-YY	4.7	1	5,10	40	7.96	100	0.16	1.60
HBCC-5R6X-YY	5.6	1	5,10	40	7.96	90	0.17	1.55
HBCC-6R8X-YY	6.8	1	5,10	40	7.96	80	0.19	1.50
HBCC-8R2X-YY	8.2	1	5,10	40	7.96	70	0.20	1.45
HBCC-100X-YY	10	1	5,10	60	2.52	60	0.22	1.40
HBCC-120X-YY	12	0.02	5,10	60	2.52	40	0.26	1.30
HBCC-150X-YY	15	0.02	5,10	60	2.52	20	0.30	1.25
HBCC-180X-YY	18	0.02	5,10	60	2.52	17	0.33	1.20
HBCC-220X-YY	22	0.02	5,10	40	2.52	12	0.35	1.10
HBCC-250X-YY	25	0.02	5,10	40	2.52	10	0.39	1.00
HBCC-270X-YY	27	0.02	5,10	40	2.52	10	0.39	1.00
HBCC-330X-YY	33	0.02	5,10	40	2.52	8.0	0.43	0.90
HBCC-390X-YY	39	0.02	5,10	40	2.52	6.5	0.47	0.85
HBCC-470X-YY	47	0.02	5,10	40	2.52	5.0	0.50	0.80
HBCC-560X-YY	56	0.02	5,10	40	2.52	4.5	0.55	0.75
HBCC-680X-YY	68	0.02	5,10	30	2.52	4.0	0.60	0.70
HBCC-820X-YY	82	0.02	5,10	30	2.52	3.7	0.65	0.65
HBCC-101X-YY	100	0.02	5,10	50	0.796	3.5	0.70	0.60
HBCC-121X-YY	120	0.02	5,10	50	0.796	3.2	1.00	0.55
HBCC-151X-YY	150	0.02	5,10	50	0.796	3.0	1.20	0.50
HBCC-181X-YY	180	0.02	5,10	50	0.796	2.7	1.40	0.45
HBCC-221X-YY	220	0.02	5,10	50	0.796	2.4	1.60	0.40
HBCC-271X-YY	270	0.02	5,10	50	0.796	2.1	1.80	0.37
HBCC-331X-YY	330	0.02	5,10	50	0.796	1.9	2.0	0.33
HBCC-391X-YY	390	0.02	5,10	50	0.796	1.7	2.3	0.31
HBCC-471X-YY	470	0.02	5,10	40	0.796	1.5	2.5	0.28
HBCC-561X-YY	560	0.02	5,10	40	0.796	1.4	2.9	0.26
HBCC-681X-YY	680	0.02	5,10	40	0.796	1.3	3.2	0.24
HBCC-821X-YY	820	0.02	5,10	30	0.796	1.25	3.5	0.22
HBCC-102X-YY	1000	0.02	5,10	60	0.252	1.20	3.8	0.20
HBCC-122X-YY	1200	0.02	5,10	60	0.252	1.10	5.2	0.18
HBCC-152X-YY	1500	0.02	5,10	60	0.252	1.00	6.5	0.16
HBCC-182X-YY	1800	0.02	5,10	60	0.252	0.90	8	0.14
HBCC-222X-YY	2200	0.02	5,10	60	0.252	0.80	9	0.12
HBCC-272X-YY	2700	0.02	5,10	60	0.252	0.70	12	0.12
HBCC-332X-YY	3300	0.02	5,10	60	0.252	0.60	15	0.11
HBCC-392X-YY	3900	0.02	5,10	60	0.252	0.55	18	0.10
HBCC-472X-YY	4700	0.02	5,10	60	0.252	0.50	22	0.09
HBCC-502X-YY	5000	0.02	5,10	60	0.252	0.40	24	0.09
HBCC-532X-YY	5300	0.02	5,10	60	0.252	0.40	30	0.08
HBCC-682X-YY	6800	0.02	5,10	60	0.252	0.40	30	0.08
HBCC-103X-YY	10000	0.02	5,10	50	0.079	0.35	42	0.06
HBCC-153X-YY	15000	0.02	5,10	50	0.079	0.30	68	0.05
HBCC-183X-YY	18000	0.02	5,10	50	0.079	0.26	120	0.04
HBCC-223X-YY	22000	0.02	5,10	50	0.079	0.26	120	0.04
HBCC-333X-YY	33000	0.02	5,10	50	0.079	0.22	150	0.035
HBCC-363X-YY	36000	0.02	5,10	50	0.079	0.22	150	0.035
HBCC-473X-YY	47000	0.02	5,10	40	0.079	0.18	230	0.030
* HBCC-683X-YY	68000	0.02	5,10	40	0.079	0.15	290	0.025
* HBCC-104X-YY	100000	0.02	5,10	40	0.079	0.12	390	0.020

Core Material: Ferrite

SPQ:

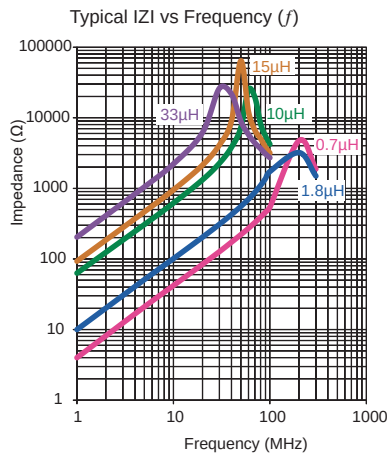
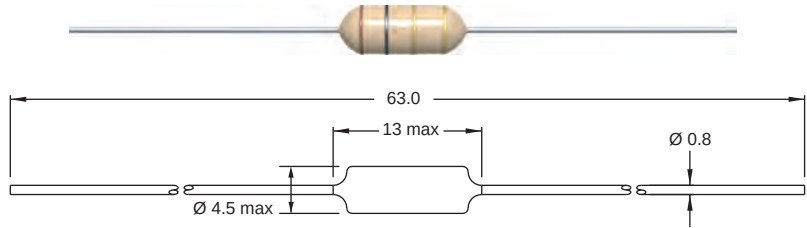
Packaging Form	Taped / Reel	Taped / Ammo pack
Axial	1200 [-01]	600 [-02]
Radial	1000 [-31]	1800 [-32]

Remarks:

* This inductance does not comply to IEC standard.

Revision date: 07 May 2020

HCCC



Single layer (typ)

Part No	Inductance L (μH)	f _L (MHz)	Tol ± (%)	DCR max (Ω)	Rated DC Current (A)
HCCC-R70M-YY	0.7	1	20	0.018	7.00
HCCC-1R0X-YY	1.0	1	10,20	0.018	4.00
HCCC-1R2X-YY	1.2	1	10,20	0.035	2.60
HCCC-1R5X-YY	1.5	1	10,20	0.050	2.50
HCCC-1R8X-YY	1.8	1	10,20	0.066	2.50
HCCC-2R2X-YY	2.2	1	10,20	0.070	2.30
HCCC-2R7X-YY	2.7	1	10,20	0.080	2.30
HCCC-3R3X-YY	3.3	1	10,20	0.115	1.80
HCCC-3R6X-YY	3.6	1	10,20	0.132	1.80
HCCC-3R9X-YY	3.9	1	10,20	0.132	1.70
HCCC-5R6X-YY	5.6	1	10,20	0.140	1.50
HCCC-6R8X-YY	6.8	1	10,20	0.276	1.50
HCCC-8R2X-YY	8.2	1	10,20	0.276	1.50
HCCC-100X-YY	10	1	10,20	0.320	1.30
HCCC-120X-YY	12	1	10,20	0.650	0.70
HCCC-150X-YY	15	1	10,20	1.100	0.60
HCCC-180X-YY	18	1	10,20	1.200	0.60
HCCC-220X-YY	22	1	10,20	2.500	0.40
HCCC-270X-YY	27	1	10,20	2.900	0.30
HCCC-330X-YY	33	1	10,20	3.300	0.30

Core Material: Ferrite

Revision date: 11 Aug 2014

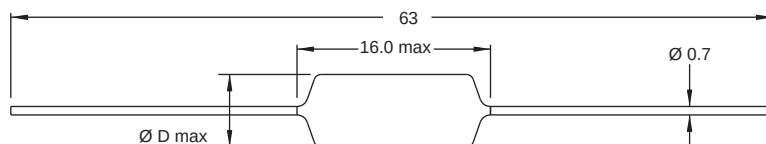
SPQ:

Packaging Form	Taped / Reel	Taped / Ammo pack
Axial	2500 [-01]	800 [-02]

VHBCC

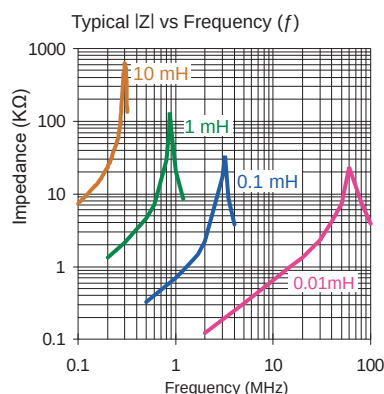
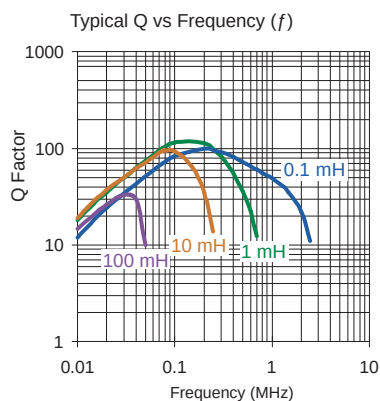
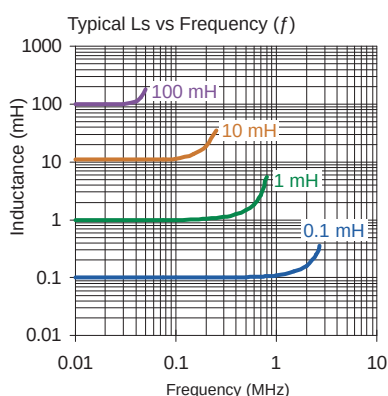


L (μH)	Ø D max
47	6.3
10 - 33 & 68 - 100000	6.0



(Fixed Choke Coils)

Leaded Inductors



Part No	Inductance L (μH)	f _L (kHz)	Tol ± (%)	Q min	f _Q (kHz)	SRF min (MHz)	DCR max (Ω)	Rated DC Current (mA)	
								I ₁	I _{sat}
VHBCC-100X-YY	10	1000	5,10	55	2520	38	0.09	2900	4600
VHBCC-150X-YY	15	100	5,10	55	2520	36	0.13	2250	3800
VHBCC-220X-YY	22	100	5,10	50	2520	15	0.15	2030	3100
VHBCC-330X-YY	33	100	5,10	35	2520	5.2	0.16	1980	2550
VHBCC-470X-YY	47	100	5,10	30	2520	4.8	0.18	1800	2100
VHBCC-680X-YY	68	100	5,10	20	2520	3.8	0.25	1620	1790
VHBCC-101X-YY	100	100	5,10	40	796	2.5	0.62	1060	1490
VHBCC-151X-YY	150	100	5,10	35	796	2.0	0.80	960	1210
VHBCC-181X-YY	180	100	5,10	35	796	1.6	0.85	690	1000
VHBCC-221X-YY	220	100	5,10	35	796	1.6	1.2	690	900
VHBCC-331X-YY	330	100	5,10	25	796	1.4	1.4	630	735
VHBCC-391X-YY	390	100	5,10	25	796	1.3	1.6	590	675
VHBCC-471X-YY	470	100	5,10	20	796	1.2	1.8	550	630
VHBCC-561X-YY	560	100	5,10	15	796	1.06	2.3	525	610
VHBCC-681X-YY	680	100	5,10	15	796	0.92	2.6	500	590
VHBCC-821X-YY	820	100	5,10	70	252	0.72	4.2	448	550
VHBCC-102X-YY	1000	100	5,10	70	252	0.72	4.2	400	490
VHBCC-122X-YY	1200	100	5,10	70	252	0.68	5.5	350	448
VHBCC-152X-YY	1500	100	5,10	70	252	0.65	6	320	400
VHBCC-182X-YY	1800	100	5,10	70	252	0.65	6	300	410
VHBCC-222X-YY	2200	100	5,10	65	252	0.50	10	250	340
VHBCC-272X-YY	2700	100	5,10	50	252	0.42	12	243	298
VHBCC-332X-YY	3300	100	5,10	50	252	0.42	12	220	270
VHBCC-392X-YY	3900	100	5,10	30	252	0.29	18	200	245
VHBCC-472X-YY	4700	100	5,10	30	252	0.31	18	200	220
VHBCC-562X-YY	5600	10	5,10	60	79.6	0.30	26	160	200
VHBCC-682X-YY	6800	10	5,10	60	79.6	0.29	24	150	180
VHBCC-822X-YY	8200	10	5,10	60	79.6	0.22	35	135	165
VHBCC-103X-YY	10000	10	5,10	60	79.6	0.20	40	120	150
VHBCC-123X-YY	12000	10	5,10	55	79.6	0.17	63	112	134
VHBCC-153X-YY	15000	10	5,10	55	79.6	0.17	63	100	120
VHBCC-183X-YY	18000	10	5,10	50	79.6	0.16	90	86	110
VHBCC-223X-YY	22000	10	5,10	50	79.6	0.15	100	82	100
VHBCC-273X-YY	27000	10	5,10	50	79.6	0.14	130	75	95
VHBCC-333X-YY	33000	10	5,10	50	79.6	0.14	130	67	85
* VHBCC-473X-YY	47000	10	5,10	30	25.2	0.09	220	53	73
* VHBCC-683X-YY	68000	10	5,10	25	25.2	0.08	270	49	59
* VHBCC-104X-YY	100000	10	5,10	20	25.2	0.06	490	34	45

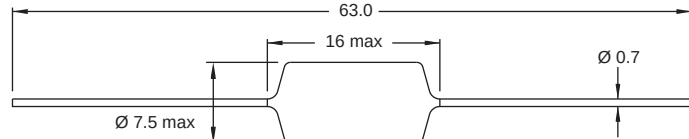
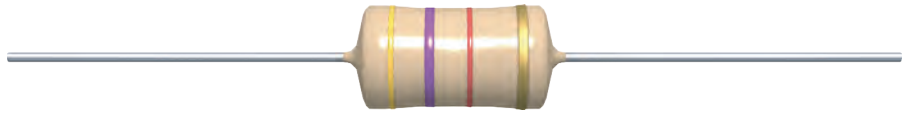
Core Material: Ferrite

Revision date: 23 May 2017

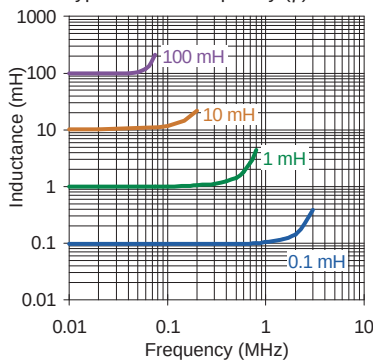
SPQ:	Packaging Form	Taped / Reel	Taped / Ammo pack
	Axial	1200 [-01]	500 [-02]

Remarks: - I₁ & I_{sat} - see description in Technical Data
- * The inductance does not comply to IEC standard.

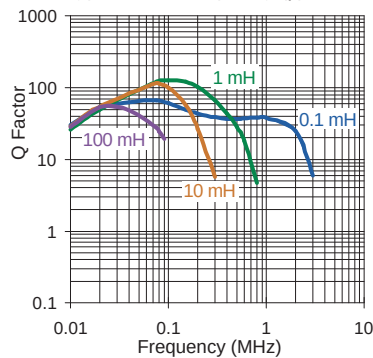
XHBCC



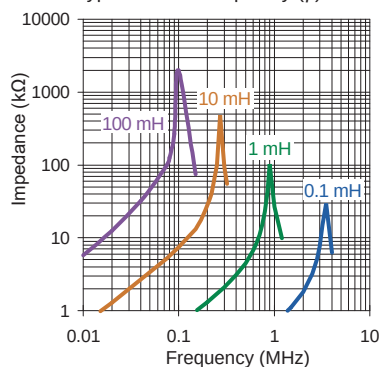
Typical L_s vs Frequency (f)



Typical Q vs Frequency (f)



Typical $|Z|$ vs Frequency (f)



Part No	Inductance	f_L	Tol	Q	f_Q	SRF	DCR	Rated DC Current	
	L (μH)	(kHz)	$\pm$ (%)	min	(kHz)	min (MHz)	max (Ω)	I_L	I_{sat}
XHBCC-101K-YY	100	20	10	30	796	2.50	0.24	1620	1860
XHBCC-151K-YY	150	20	10	30	796	2.10	0.39	1260	1510
XHBCC-221K-YY	220	20	10	25	796	1.80	0.49	1120	1260
XHBCC-331K-YY	330	20	10	25	796	1.40	0.83	870	1030
XHBCC-471K-YY	470	20	10	25	796	1.10	1.40	655	875
XHBCC-681X-YY	680	20	5,10	65	252	1.00	1.80	590	715
XHBCC-102X-YY	1000	20	5,10	70	252	0.75	2.70	485	595
XHBCC-152X-YY	1500	20	5,10	60	252	0.60	4.40	375	485
XHBCC-172X-YY	1700	20	5,10	60	252	0.50	5.0	335	415
XHBCC-202X-YY	2000	20	5,10	60	252	0.51	5.2	345	435
XHBCC-222X-YY	2200	20	5,10	55	252	0.50	5.5	335	380
XHBCC-242X-YY	2400	20	5,10	55	252	0.49	5.6	330	380
XHBCC-252X-YY	2500	20	5,10	50	252	0.46	5.9	325	375
XHBCC-272X-YY	2700	20	5,10	50	252	0.45	6.1	320	360
XHBCC-302X-YY	3000	20	5,10	50	252	0.44	6.5	310	340
XHBCC-332X-YY	3300	20	5,10	45	252	0.42	7.2	295	320
XHBCC-352X-YY	3500	20	5,10	45	252	0.35	7.6	285	310
XHBCC-362X-YY	3600	20	5,10	45	252	0.34	7.9	280	305
XHBCC-452X-YY	4500	20	5,10	40	252	0.34	10	245	275
XHBCC-472X-YY	4700	20	5,10	40	252	0.34	12	230	270
XHBCC-532X-YY	5300	20	5,10	35	252	0.31	13	225	255
XHBCC-682X-YY	6800	20	5,10	95	79.6	0.23	16	195	225
XHBCC-103X-YY	10000	20	5,10	90	79.6	0.21	28	150	185
XHBCC-153X-YY	15000	20	5,10	90	79.6	0.19	35	130	155
XHBCC-223X-YY	22000	20	5,10	70	79.6	0.14	52	110	125
XHBCC-333X-YY	33000	20	5,10	30	79.6	0.10	80	90	105
XHBCC-473X-YY	47000	20	5,10	55	25	0.08	97	80	85
XHBCC-683X-YY	68000	20	5,10	55	25	0.07	150	65	70
XHBCC-104X-YY	100000	20	5,10	40	25	0.06	245	50	60

Core Material: Ferrite

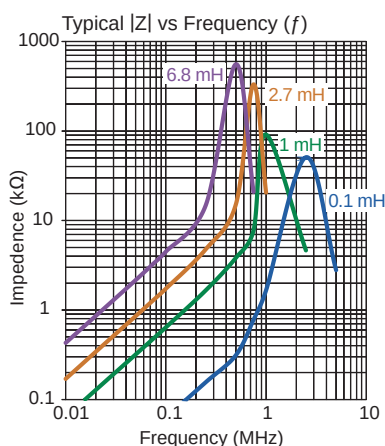
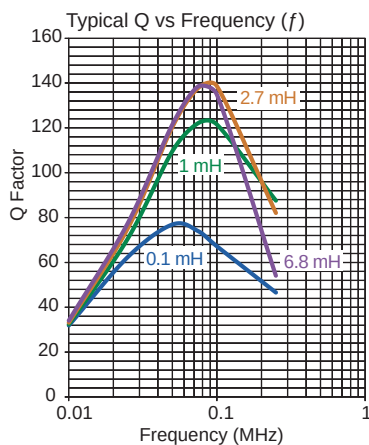
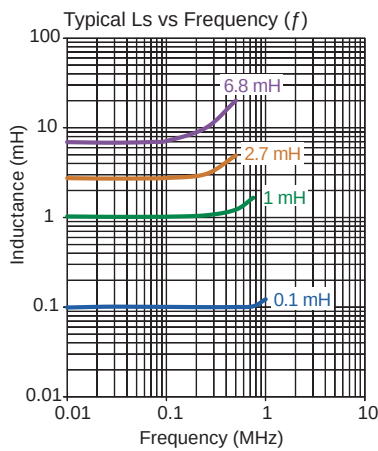
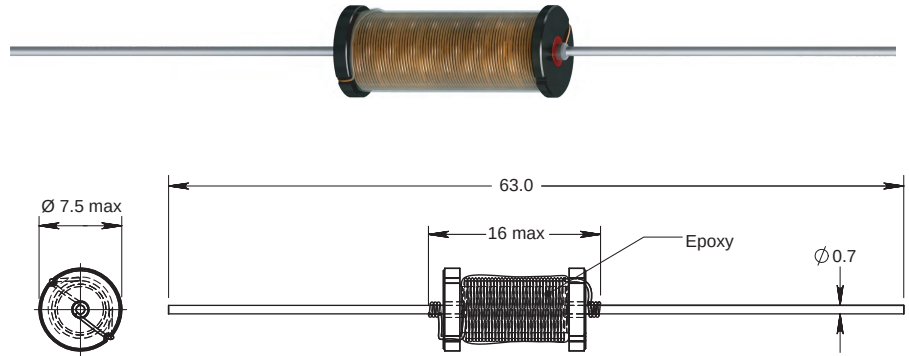
Revision date: 31 May 2016

SPQ:	Packaging Form	Taped / Reel	Taped / Ammo pack
	Axial	800 [-01]	300 [-02]

Remarks: I_L & I_{sat} - see description in Technical Data.

XHBHV

For High Voltages up to 400V DC



Part No	Inductance	f_L	Tol	Q	f_Q	SRF	DCR	Rated DC Current	
	L (μ H)	(kHz)	$\pm$ (%)	min	(kHz)	min (MHz)	max (Ω)	I_L	I_{sat} typ
XHBHV-101K-YY	100	20	10	30	796	2.81	0.22	1760	1720
XHBHV-151K-YY	150	20	10	30	796	2.45	0.36	1420	1480
XHBHV-221K-YY	220	20	10	25	796	1.98	0.44	1300	1240
XHBHV-331K-YY	330	20	10	25	796	1.63	0.77	1000	1010
XHBHV-471K-YY	470	20	10	45	252	1.45	0.96	900	850
XHBHV-681X-YY	680	20	5,10	55	252	1.18	1.49	730	710
XHBHV-102X-YY	1000	20	5,10	70	252	0.98	2.20	560	560
XHBHV-152X-YY	1500	20	5,10	70	252	0.80	3.29	500	480
XHBHV-172X-YY	1700	20	5,10	65	252	0.75	4.61	480	430
XHBHV-202X-YY	2000	20	5,10	80	252	0.70	4.74	410	420
XHBHV-222X-YY	2200	20	5,10	75	252	0.65	5.04	400	380
XHBHV-242X-YY	2400	20	5,10	65	252	0.62	5.45	390	360
XHBHV-252X-YY	2500	20	5,10	65	252	0.62	5.53	380	350
XHBHV-272X-YY	2700	20	5,10	65	252	0.62	5.76	370	370
XHBHV-302X-YY	3000	20	5,10	55	252	0.58	6.22	360	330
XHBHV-332X-YY	3300	20	5,10	55	252	0.55	6.52	345	310
XHBHV-352X-YY	3500	20	5,10	55	252	0.50	7.37	330	310
XHBHV-362X-YY	3600	20	5,10	50	252	0.50	7.44	325	290
XHBHV-452X-YY	4500	20	5,10	45	252	0.45	9.48	290	260
XHBHV-472X-YY	4700	20	5,10	40	252	0.42	9.74	285	260
XHBHV-532X-YY	5300	20	5,10	45	252	0.40	12.23	255	250
XHBHV-682X-YY	6800	20	5,10	100	79.6	0.38	14.16	220	220

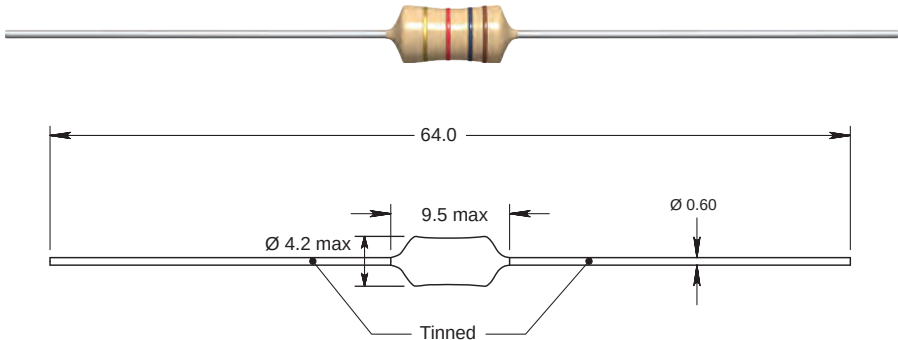
Core Material: Ferrite

Revision date: 20 Jul 2018

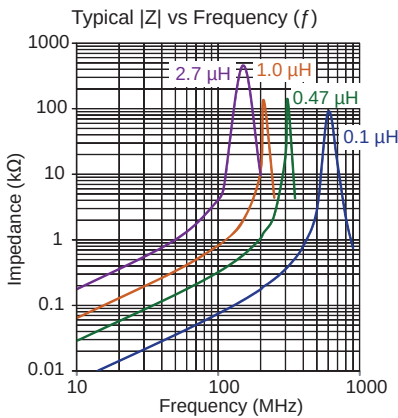
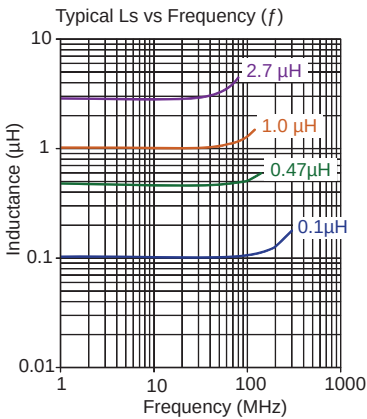
SPQ:	Packaging Form	Taped / Reel	Taped / Ammo pack
	Axial	800 [-01]	300 [-02]

Remark: I_L & I_{sat} - see description in Technical Data

05 CCM
Non-magnetic



Leaded Inductors / Medical Applications (Fixed Choke Coils)



Part No	Inductance L (μH)	f_L (MHz)	Tol ± (%)	Q min	f_Q (MHz)	SRF typ (MHz)	DCR max (Ω)	Rated DC Current max (mA)
05CCM-R10X-YY	0.10	1	10,20	50	25	700	0.025	2800
05CCM-R12X-YY	0.12	1	10,20	50	25	600	0.035	2560
05CCM-R15X-YY	0.15	1	10,20	50	25	530	0.038	2310
05CCM-R18X-YY	0.18	1	10,20	50	25	490	0.043	2200
05CCM-R22X-YY	0.22	1	10,20	50	25	450	0.048	1875
05CCM-R27X-YY	0.27	1	10,20	50	25	400	0.055	1760
05CCM-R33X-YY	0.33	1	10,20	55	25	360	0.065	1650
05CCM-R39X-YY	0.39	1	10,20	50	25	350	0.090	1525
05CCM-R47X-YY	0.47	1	10,20	55	25	310	0.097	1475
05CCM-R56X-YY	0.56	1	10,20	50	25	280	0.115	1435
05CCM-R68X-YY	0.68	1	10,20	55	25	250	0.150	1315
05CCM-R82X-YY	0.82	1	10,20	45	25	225	0.210	1020
05CCM-1R0X-YY	1.00	1	10,20	53	25	200	0.300	890
05CCM-1R2X-YY	1.20	1	10,20	30	7.9	180	0.360	820
05CCM-1R5X-YY	1.50	1	10,20	30	7.9	160	0.520	680
05CCM-1R8X-YY	1.80	1	10,20	30	7.9	150	0.675	570
05CCM-2R2X-YY	2.20	1	10,20	35	7.9	135	1.000	480
05CCM-2R7X-YY	2.70	1	10,20	35	7.9	120	1.360	400

Core Material: Phenolic

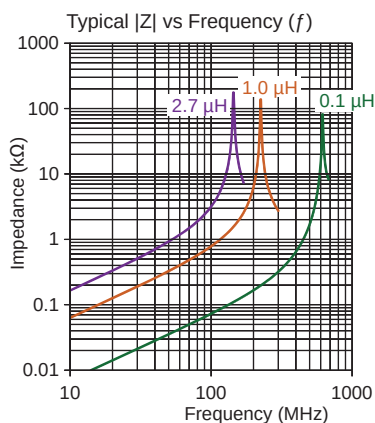
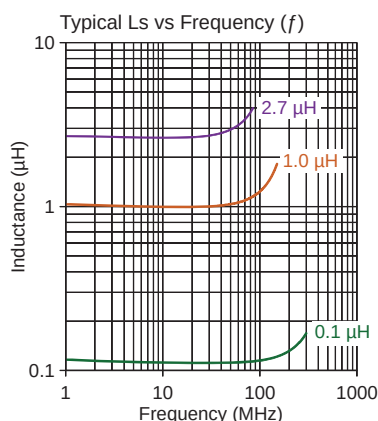
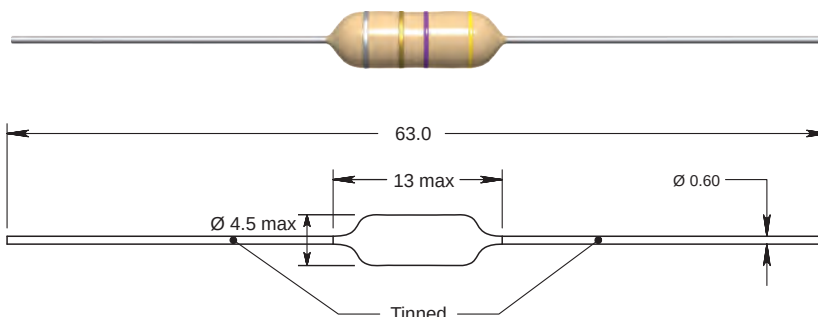
Revision date: 12 Aug 2020

SPQ:

Packaging Form	Taped / Reel	Taped / Ammo pack
Axial	3500 [-01]	1200 [-02]
Radial	1500 [-31]	2500 [-32]

06 CCM

Non-magnetic



Part No	Inductance L (μ H)	f_L (MHz)	Tol $\pm$ (%)	Q min	f_Q (MHz)	SRF typ (MHz)	DCR max (Ω)	Rated DC Current max (mA)
06CCM-R10X-YY	0.10	1	10, 20	55	25	600	0.027	4000
06CCM-R12X-YY	0.12	1	10, 20	55	25	600	0.028	3500
06CCM-R15X-YY	0.15	1	10, 20	55	25	550	0.035	3300
06CCM-R18X-YY	0.18	1	10, 20	50	25	530	0.035	3200
06CCM-R22X-YY	0.22	1	10, 20	50	25	520	0.040	3050
06CCM-R27X-YY	0.27	1	10, 20	50	25	460	0.050	2800
06CCM-R33X-YY	0.33	1	10, 20	50	25	450	0.055	2500
06CCM-R39X-YY	0.39	1	10, 20	50	25	410	0.080	1800
06CCM-R47X-YY	0.47	1	10, 20	50	25	390	0.090	1700
06CCM-R56X-YY	0.56	1	10, 20	50	25	350	0.110	1500
06CCM-R68X-YY	0.68	1	10, 20	50	25	300	0.150	1350
06CCM-R82X-YY	0.82	1	10, 20	50	25	290	0.200	1100
06CCM-1R0X-YY	1.00	1	10, 20	50	25	250	0.290	890
06CCM-1R2X-YY	1.20	1	10, 20	30	7.9	230	0.360	795
06CCM-1R5X-YY	1.50	1	10, 20	30	7.9	220	0.450	750
06CCM-1R8X-YY	1.80	1	10, 20	30	7.9	200	0.650	600
06CCM-2R2X-YY	2.20	1	10, 20	30	7.9	160	0.930	460
06CCM-2R7X-YY	2.70	1	10, 20	30	7.9	140	1.150	460

Core Material: Phenolic

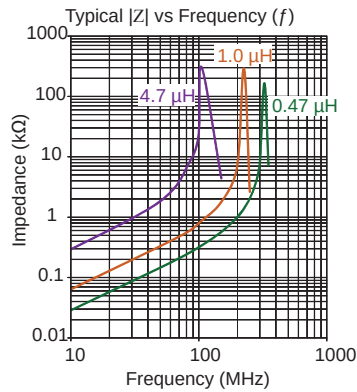
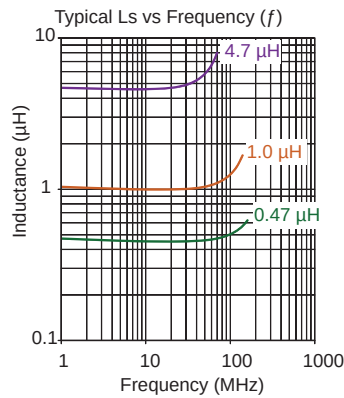
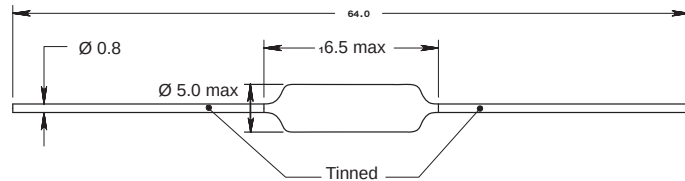
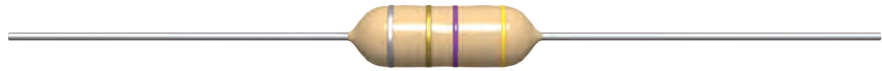
Revision date: 30 Aug 2022

SPQ:

Packaging Form	Taped / Reel	Taped / Ammo pack
Axial	3000 [-01]	800 [-02]

08 CCM

Non-magnetic



Part No	Inductance L (µH)	f_L (MHz)	Tol ± (%)	Q min	f_Q (MHz)	SRF typ (MHz)	DCR max (Ω)	Rated DC Current max (mA)
08CCM-R47X-YY	0.47	1	10 ,20	65	25	400	0.060	2880
08CCM-R56X-YY	0.56	1	10 ,20	60	25	400	0.080	2160
08CCM-R68X-YY	0.68	1	10 ,20	60	25	350	0.100	1840
08CCM-R82X-YY	0.82	1	10 ,20	60	25	300	0.130	1540
08CCM-1R0X-YY	1.00	1	10 ,20	60	25	250	0.160	1280
08CCM-1R2X-YY	1.20	1	10 ,20	40	7.9	230	0.220	1080
08CCM-1R5X-YY	1.50	1	10 ,20	40	7.9	220	0.310	900
08CCM-1R8X-YY	1.80	1	10 ,20	40	7.9	200	0.350	850
08CCM-2R2X-YY	2.20	1	10 ,20	40	7.9	180	0.550	640
08CCM-2R7X-YY	2.70	1	10 ,20	40	7.9	160	0.650	625
08CCM-3R3X-YY	3.30	1	10 ,20	35	7.9	140	0.900	525
08CCM-3R9X-YY	3.90	1	10 ,20	35	7.9	130	1.200	475
08CCM-4R7X-YY	4.70	1	10 ,20	35	7.9	120	1.450	415

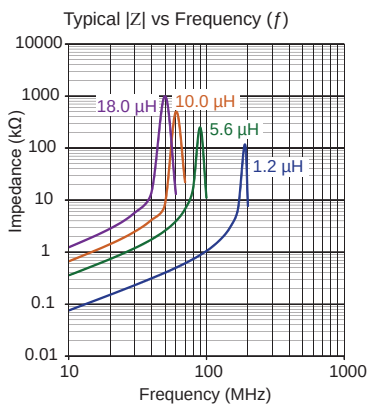
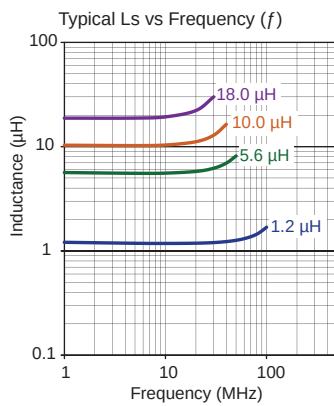
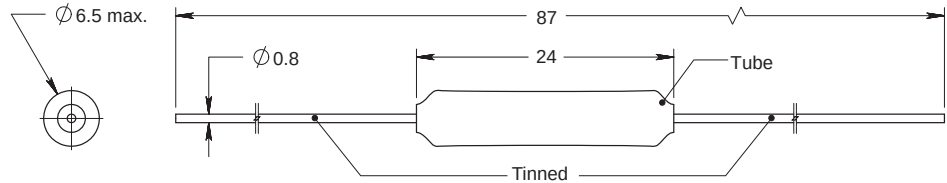
Core Material: Phenolic

Revision date: 09 Aug 2019

SPQ:	Packaging Form	Taped / Reel	Taped / Ammo pack
	Axial	1200 [-01]	500 [-02]

12 CCM

Non-magnetic



Part No	Inductance	f_L	Tol	Q	f_Q	SRF	DCR	Rated DC
	L (µH)	(MHz)	± (%)	min	(MHz)	typ (MHz)	max (Ω)	Current max (mA)
12CCM-1R2X-01	1.20	1	10,20	55	7.9	240	0.100	2250
12CCM-1R5X-01	1.50	1	10,20	55	7.9	230	0.130	1750
12CCM-1R8X-01	1.80	1	10,20	55	7.9	200	0.180	1580
12CCM-2R2X-01	2.20	1	10,20	55	7.9	180	0.225	1365
12CCM-2R7X-01	2.70	1	10,20	55	7.9	165	0.280	1215
12CCM-3R3X-01	3.30	1	10,20	55	7.9	150	0.350	1010
12CCM-3R9X-01	3.90	1	10,20	55	7.9	140	0.480	860
12CCM-4R7X-01	4.70	1	10,20	55	7.9	130	0.650	750
12CCM-5R6X-01	5.60	1	10,20	55	7.9	120	0.850	620
12CCM-6R8X-01	6.80	1	10,20	55	7.9	110	1.180	520
12CCM-8R2X-01	8.20	1	10,20	55	7.9	95	1.350	520
12CCM-100X-01	10	1	10,20	55	7.9	90	2.090	400
12CCM-120X-01	12	1	10,20	35	2.5	80	2.500	370
12CCM-150X-01	15	1	10,20	35	2.5	70	3.800	300
12CCM-180X-01	18	1	10,20	35	2.5	65	5.100	270

Core Material: Phenolic

Revision date: 25 Aug 2020

SPQ:

Packaging Form	Taped / Reel
Axial	1000 [-01]

Suppression Coils

FASTRON's suppression coils come with high rated currents and low DC resistance characteristics. Inductance values range from 1μH to 10000μH. They are available in tape and ammo pack packaging.

Applications Communication: RF blocking, filtering, and decoupling
Others: entertainment electronics, and interference suppression

Technical Data

L – Value (rated inductance)	Measured with Bode 100 Vector Network Analyzer or equivalent at frequency f_L
DCR (max)	Measured at 25°C
Rated DC Current	I based on temperature rise, determined at the point where the temperature rise does not exceed 40°C above the ambient temperature of 25°C
Operating Temperature	-55°C to +125°C (including component self-heating)
Recommended Soldering Method	Wave
Moisture Sensitivity Levels (MSL)	MSL Level 1, indicating unlimited floor life at ≤ 30°C / 85% relative humidity
Solderability	Using lead free solder (Sn 99.9) at 260°C ± 5°C for 5 ± 0.5 seconds, min 90% solder coverage of metallization Standard: IEC 68-2-20 (Ta)
Resistance to Soldering Heat	Resistant to 260°C ± 5°C for 10 ± 1 seconds Standard: IEC 68-2-20 (Tb)
Resistance to Solvent	Resistant to isopropyl alcohol for 5 ± 0.5 minutes at 23°C ± 5°C Standard: IEC 68-2-45
Climatic Test	Defined by the following standards: IEC 68-2-1 for cold test: -55°C for 96 hours IEC 68-2-2 for dry heat test: +125°C for 96 hours IEC 60068-2-78 for humidity test: 40°C at RH 95% for 4 days
Thermal Shock Test	Temperature cycle: -55°C to +125°C to -55°C Max/Min temperature duration: 15 minutes Temperature transition duration: 5 minutes Cycles: 25 Standard: MIL-STD-202G
Tensile Strength of Leads (Pull Test)	Components withstand a pulling force of 20N for 10 ± 1 seconds IEC 60068-2-21 (Ua1)
Mechanical Shock	Mil-Std 202 Method 213 Condition C 3 axis, 6 times, total 18 shocks 100 G, 6 ms, half-sine
Vibration	Mil-Std 202 Method 204 20 mins at 5G 10 Hz to 2000 Hz 12 cycles each of 3 orientations

Ordering Code Example: MISC-100X-YY

MISC - 100 X - YY ➔ MISC-100M-01
(Model) (Inductance Value) (Tolerance) (Packaging Code)

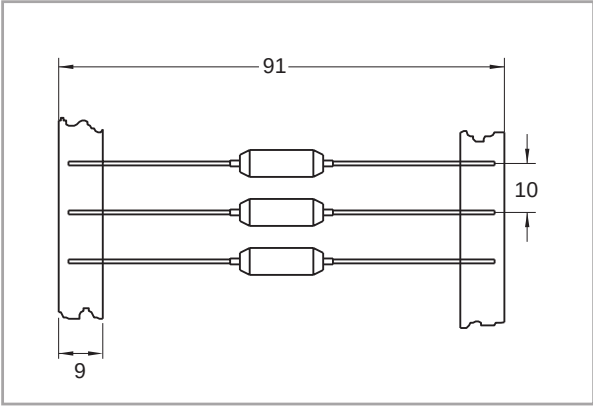
Core Types - Ferrite, Iron Dust

Tolerances - K (±10%), M (±20%)

Packaging Code - 00 (Loose in Box), 01 (Taped / Reel)

Packaging
Specification

Standard Axial Taping
Packaging code: 01

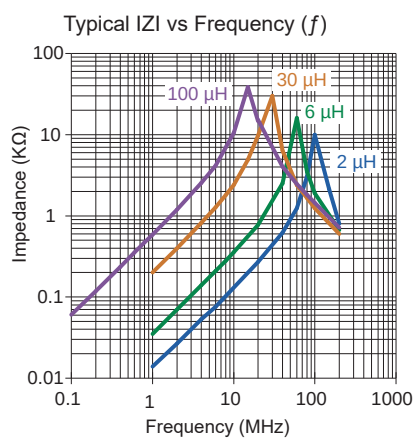
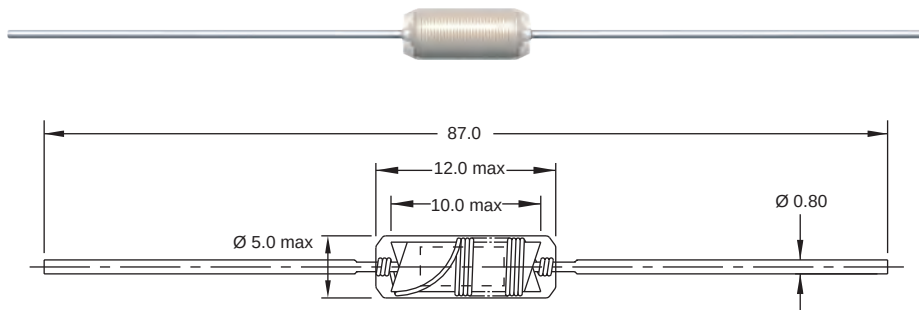


Recommended forming pitch

Series	MISC	SMSC	MESC	LASC	SSSC	MSSC	LSSC	77A
p min (mm)	17.5	22.5	28	32.5	27.5	32.5	37.5	29.5 (33.5*)

***only valid for 77A-3R9M-00**

MISC



Part No	Inductance	f _L	Tol	DCR	Rated DC
	L (μH)	(kHz)	± (%)	max (mΩ)	Current (A)
MISC-1R0M-01	1	1000	20	18	4
MISC-2R0M-01	2	1000	20	54	3
MISC-3R0M-01	3	1000	20	93	2
MISC-6R0M-01	6	1000	20	228	1.5
MISC-140M-01	14	100	20	912	0.7
MISC-300M-01	30	100	20	3240	0.4
MISC-400M-01	40	100	20	4290	0.3
MISC-101M-01	100	100	20	22800	0.15

Core Material: Iron Dust

Revision date: 27 Apr 2017

SPQ:	Packaging Form	Taped / Reel
	Axial	1500 [-01]

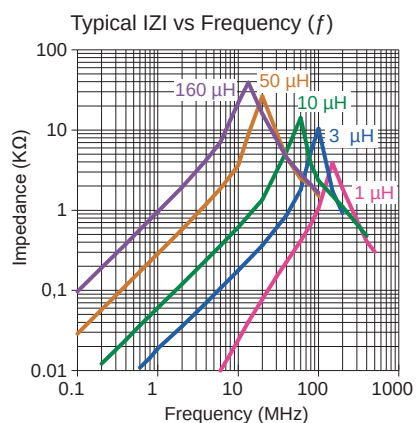
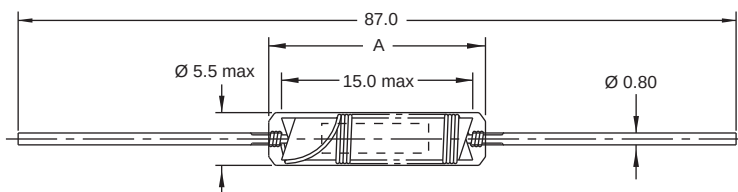
Remarks:

- Available also without insulating material (MISC/B)
- Single layer - Model with Insulation Foil are suitable for Application in "Power Line", rated voltage 230V AC (Test voltage 500V DC).

SMSC 



L (μH)	A (max)
1 - 23	17
50 - 160	19



Part No	Inductance L (μH)	f _L (kHz)	Tol ± (%)	DCR max (mΩ)	Rated DC Current (A)
SMSC-1R0M-01	1	1000	20	14	6
SMSC-2R0M-01	2	1000	20	24	4
SMSC-3R0M-01	3	1000	20	46	3
SMSC-6R0M-01	6	1000	20	144	2
SMSC-100M-01	10	1000	20	276	1.5
SMSC-230M-01	23	100	20	876	0.7
SMSC-500M-01	50	100	20	3600	0.4
SMSC-700M-01	70	100	20	5400	0.3
SMSC-161M-01	160	100	20	21600	0.15

Single layer

Core Material: Iron Dust

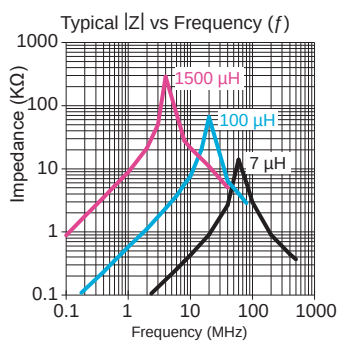
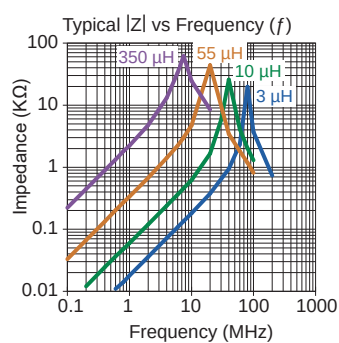
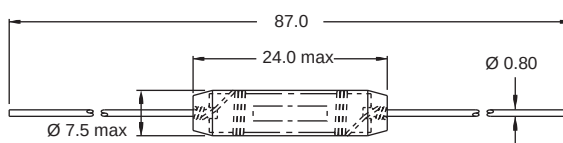
Revision date: 09 May 2017

SPQ:	Packaging Form	Taped / Reel
	Axial	1500 [-01]

Remarks:

- Available also without insulating material (SMSC/B).
- Single layer - Model with Insulation Foil are suitable for Application in "Power Line", rated voltage 230V AC (Test voltage 500V DC).

MESC



Single layer

Part No	Inductance L (μH)	f _L (kHz)	Tol ± (%)	DCR max (mΩ)	Rated DC Current (A)	Core Material
MESC-3R0M-01	3	1000	20	22	6.0	Iron Dust
MESC-3R3M-01	3.3	100	20	22	1.61	Iron Dust
MESC-5R0M-01	5	1000	20	41	4.0	Iron Dust
MESC-100M-01	10	1000	20	105	3.0	Iron Dust
MESC-150M-01	15	100	20	198	2.0	Iron Dust
MESC-250M-01	25	100	20	408	1.5	Iron Dust
MESC-550M-01	55	100	20	1560	0.7	Iron Dust
MESC-131M-01	130	100	20	5760	0.4	Iron Dust
MESC-161M-01	160	100	20	7920	0.3	Iron Dust
MESC-351M-01	350	100	20	25200	0.15	Iron Dust
MESC-7R0M-01	7	1000	20	24	6.0	Ferrite
MESC-120M-01	12	100	20	48	4.0	Ferrite
MESC-220M-01	22	100	20	84	3.0	Ferrite
MESC-400M-01	40	100	20	216	2.0	Ferrite
MESC-560M-01	56	100	20	360	1.5	Ferrite
MESC-750M-01	75	100	20	780	0.7	Ferrite
MESC-101M-01	100	100	20	780	1.0	Ferrite
MESC-221M-01	220	100	20	3120	0.5	Ferrite
MESC-331M-01	330	100	20	5300	0.3	Ferrite
MESC-471M-01	470	100	20	7800	0.3	Ferrite
MESC-681M-01	680	100	20	16800	0.2	Ferrite
MESC-122M-01	1200	100	20	40800	0.1	Ferrite
MESC-152M-01	1500	100	20	64800	0.08	Ferrite

Revision date: 13 Oct 2017

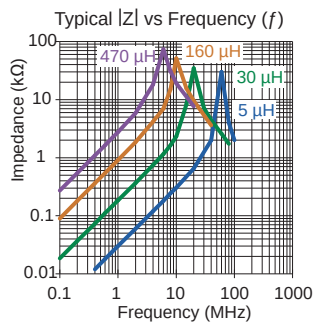
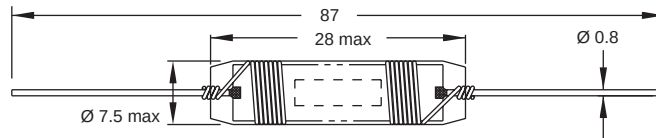
SPQ:

Packaging Form	Taped / Reel
Axial	1000 [-01]

Remarks:

- Available also without insulating material (MESC/B).
- Single layer - Model with Insulation Foil are suitable for application in "Power Line", rated voltage 230V AC (Test voltage 500V DC).

LASC



Single layer

Part No	Inductance L (μH)	f _L (kHz)	Tol ± (%)	DCR max (mΩ)	Rated DC Current (A)
LASC-5R0M-01	5	1000	20	28	6
LASC-6R0M-01	6	1000	20	36	5
LASC-7R0M-01	7	1000	20	42	4
LASC-120M-01	12	100	20	100	3
LASC-200M-01	20	100	20	204	2
LASC-300M-01	30	100	20	420	1.5
LASC-600M-01	60	100	20	924	0.7
LASC-750M-01	75	100	20	1560	0.7
LASC-151M-01	150	100	20	4200	0.4
LASC-161M-01	160	100	20	4560	0.4
LASC-211M-01	210	100	20	7680	0.3
LASC-231M-01	230	100	20	8640	0.3
LASC-421M-01	420	100	20	22800	0.15
LASC-471M-01	470	100	20	24000	0.15

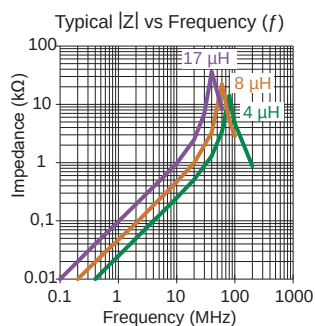
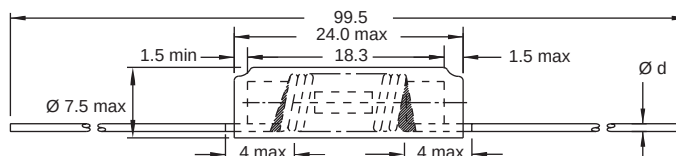
Core Material: Iron Dust

Revision date: 13 Aug 2014

SPQ:	Packaging Form	Taped / Reel
	Axial	1000 [-01]

Remarks: - Available also without insulating material (LASC/B).
- Single layer - Model with Insulation Foil are suitable for application in "Power Line", rated voltage 230V AC (Test voltage 500V DC).

SSSC



Single layer

Part No	Inductance L (μH)	f _L (MHz)	Tol ± (%)	DCR max (mΩ)	Rated DC Current (A)	Ø d (mm)
SSSC-4R0M-00	4	1	20	14	6	0.8
SSSC-6R0M-00	6	1	20	17	4	0.75
SSSC-8R0M-00	8	1	20	25	3	0.63, 0.65
SSSC-170M-00	17	0.1	20	63	2	0.45

Core Material: Ferrite

Revision date: 02 Sept 2016

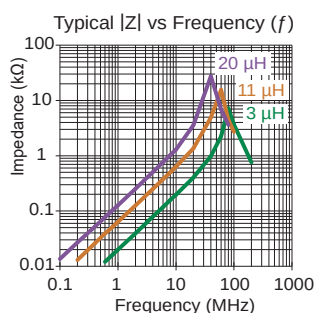
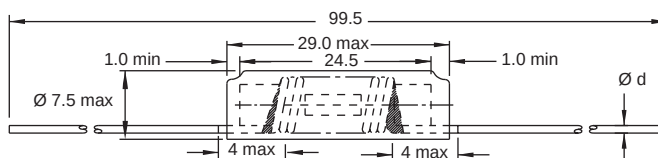
SPQ:

Packaging Form	Loose / Box
Axial	500 [-00]

Remarks: - Available also without insulating material (SSSC/B)

- Single layer - Model with Insulation Foil are suitable for application in "Power Line", rated voltage 230V AC (Testvoltage 500V DC).

MSSC



Part No	Inductance	f _L	Tol	DCR	Rated DC	Ø d
	L (μH)	(MHz)	± (%)	max (mΩ)	Current (A)	(mm)
MSSC-3R0M-00	3	1	20	6	9	1.18
MSSC-6R0M-00	6	1	20	10	6	0.95
MSSC-110M-00	11	0.1	20	20	4	0.70
MSSC-130M-00	13	0.1	20	24	3	0.70
MSSC-200M-00	20	0.1	20	54	3	0.50

Single layer

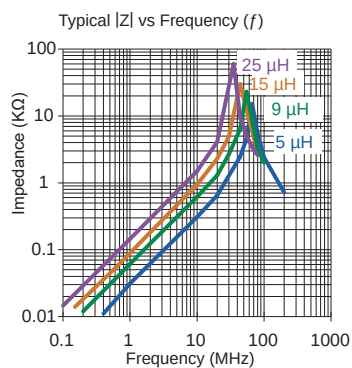
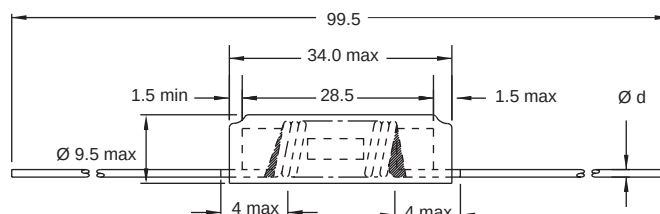
Core Material: Ferrite

Revision date: 11 Aug 2014

SPQ:	Packaging Form	Loose / Box
	Axial	350 [-00]

Remarks: - Available also without insulating material (MSSC/B)
- Single layer - Model with Insulation Foil are suitable for application in "Power Line", rated voltage 230V AC (Test voltage 500V DC).

LSSC



Single layer

Part No	Inductance L (μH)	f _L (MHz)	Tol ± (%)	DCR max (mΩ)	Rated DC Current (A)	Ø d (mm)
LSSC-5R0M-00	5	1	20	5	10	1.30
LSSC-9R0M-00	9	1	20	12	6	0.95
LSSC-150M-00	15	0.1	20	24	4	0.75
LSSC-250M-00	25	0.1	20	46	3	0.63

Core Material: Ferrite

Revision date: 11 Aug 2014

SPQ:	Packaging Form	Loose / Box
	Axial	200 [-00]

Remarks: - Available also without insulating material (LSSC/B).

- Single layer - Model with Insulation Foil are suitable for Application in "Power Line", rated voltage 230V AC (Testvoltage 500V DC).

77 A

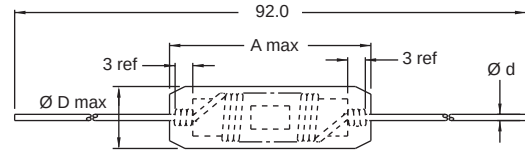
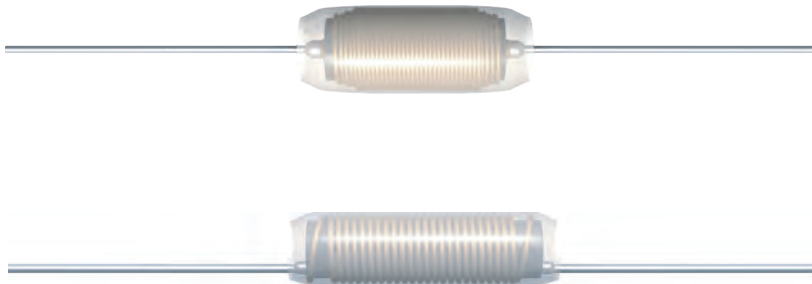


Fig 1

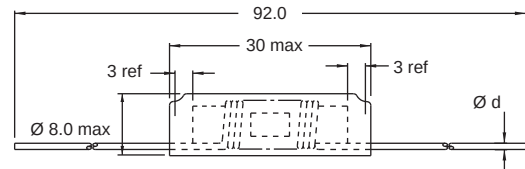
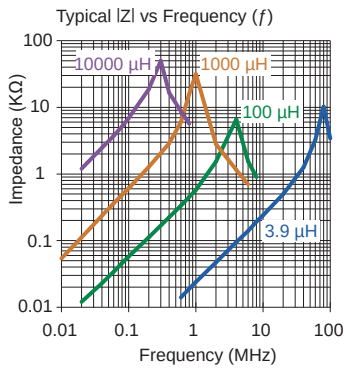


Fig 2



Single layer

Part No	Inductance L (μH)	f _L (kHz)	Tol ± (%)	DCR max (Ω)	Rated DC Current (A)	Dimension (mm) A max	Ø D max	Ø d	Fig
*77A-3R9M-00	3.9	1000	20	0.011	12.0	30	8	1.0	2
*77A-5R6M-YY	5.6	1000	20	0.021	8.0	26	8	0.8	1
*77A-100M-YY	10	1000	20	0.042	5.0	26	8	0.8	1
77A-150M-YY	15	100	20	0.060	4.0	26	9	0.8	1
77A-330M-YY	33	100	20	0.084	3.5	26	10	0.8	1
77A-400M-YY	40	100	20	0.084	3.0	26	11	0.8	1
77A-680M-YY	68	100	20	0.12	3.0	26	11	0.8	1
77A-800M-YY	80	100	20	0.15	2.5	26	11	0.8	1
77A-101M-YY	100	100	20	0.18	2.5	26	11	0.8	1
77A-121M-YY	120	100	20	0.36	2.0	26	11	0.8	1
77A-151M-YY	150	100	20	0.36	1.8	26	11	0.8	1
77A-331M-YY	330	100	20	0.60	1.4	26	11	0.8	1
77A-471M-YY	470	100	20	1.20	1.0	26	11	0.8	1
77A-501M-YY	500	100	20	0.84	1.2	26	11	0.8	1
77A-681M-YY	680	100	20	1.20	1.0	26	11	0.8	1
77A-821M-YY	820	100	20	1.20	0.95	26	11	0.8	1
77A-102M-YY	1000	100	20	1.80	0.80	26	11	0.8	1
77A-152M-YY	1500	10	20	2.40	0.70	26	11	0.8	1
77A-332M-YY	3300	10	20	4.80	0.50	26	11	0.8	1
77A-472M-YY	4700	10	20	6.80	0.36	26	11	0.8	1
77A-562M-YY	5600	10	20	9.60	0.36	26	11	0.8	1
77A-682M-YY	6800	10	20	9.60	0.35	26	11	0.8	1
77A-103M-YY	10000	10	20	14.4	0.30	26	11	0.8	1

Core Material: Ferrite

Revision date: 30 Aug 2016

SPQ:	Loose / Box	Taped / Reel
	300 [-00]	500 [-01]

Remarks:

- Available also without insulating material for 77A/B-5R6M and 77A/B-100M.
- * Mechanical shock and vibration proof.
- Single layer - Model with Insulation Foil are suitable for Application in "Power Line", rated voltage 230V AC (Testvoltage 500V DC).

Pluggable Inductors (Pin Type Coils)

FASTRON's pluggable inductors offer a wide range of inductance values from 1μH to 150 000μH, a high Q and also suitable for high currents and high voltages. They come in shielded, tube and cap versions able to protect the winding. They are available in reel packaging and ammpack.

Applications Applied in DC-DC converters and all types of electronic instruments, such as digital amplifier LPF and signal filtering applications.

Technical Data

L – Value (rated inductance)	Measured with Bode 100 Vector Network Analyzer or equivalent at frequency f _L , 25°C ambient
Q – Factor (min)	Measured with Bode 100 Vector Network Analyzer or equivalent at frequency f _Q , 25°C ambient
SRF (min)	≥ 40 MHz measured with HP8753ES Network Analyzer or equivalent at 25°C ambient < 40 MHz measured with Bode 100 Vector Network Analyzer or equivalent at 25°C ambient
DCR (max)	Measured at 25°C ambient
Rated DC Current: I	Max permissible DC Current (I) that causes a 40°C component temperature rise from 25°C ambient
Saturation Current: Isat	Isat, max permissible DC bias at 25°C ambient that causes inductivity drop 10% (typ.) related to the unloaded inductivity
Operating Temperature	-55°C to +125°C (including component self-heating) : 05HCP, 05HCP/T, 07P, 07P/F, 09P, 09P/P, 11P, 11PHC, 07M, 07MFG, 07HCP/T, 07HCPLP/T, 07HVP/T, 09HCP/T, 09HVP/T & 14HVP/T -55°C to +150°C (including component self-heating): 07HCP, 07HCPLP, 07HVP, 09HCP, 09HVP & 14HVP
Recommended Soldering Method	Wave
Moisture Sensitivity Levels (MSL)	MSL Level 1, indicating unlimited floor life at ≤ 30°C / 85% relative humidity
Solderability	Using lead free solder (Sn 99.9) at 260°C ± 5°C for 5 ± 0.5 seconds, min 90% solder coverage of metallization Standard: IEC 68-2-20 (Ta)
Resistance to Soldering Heat	Resistant to 260°C ± 5°C for 10 ± 1 seconds Standard: IEC 68-2-20 (Tb)
Resistance to Solvent	Resistant to isopropyl alcohol for 5 ± 0.5 minutes at 23°C ± 5°C Standard: IEC 68-2-45
Climatic Test	Defined by the following standards: IEC 68-2-1 for cold test: -55°C for 96 hours IEC 68-2-2 for dry heat test: +85°C for 96 hours: Pluggable, 05HCP, 05HCP/T, 07HCP/T, 07HVP/T, 07HCPLP, 09HCP/T, 09HVP/T & 14HVP/T +150°C for 96 hours: 07HCP, 07HVP, 07HCPLP, 09HCP, 09HVP & 14HVP IEC 60068-2-78 for humidity test: 40°C at RH 95% for 4 days
Thermal Shock Test	Temperature cycle: -55°C to +85°C to -55°C: Pluggable, 05HCP, 05HCP/T, 07HCP/T, 07HVP/T, 07HCPLP, 09HCP/T, 9HVP/T & 14HVP/T -55°C to +150°C to -55°C: 07HCP, 07HVP, 07HCPLP, 09HCP, 09HVP & 14HVP Max/Min temperature duration: 15 minutes Temperature transition duration: 5 minutes Cycles: 25 Standard: MIL-STD-202G
Tensile Strength of Leads (Pull Test)	Components withstand a pulling force of 10N for 10 ± 1 second For 05HCP, 05HCP/T: Components withstand a pulling force of 5N for 10 ± 1 second IEC 60068-2-21 (Ua ₁)
Mechanical Shock	Mil-Std 202 Method 213 Condition C 3 axis, 6 times, total 18 shocks 100 G, 6 ms, half-sine
Vibration	Mil-Std 202 Method 204 20 mins at 5G 10 Hz to 2000 Hz 12 cycles each of 3 orientations

Remarks : Above technical data is for non-shielded type only.

Ordering Code Example: 09P-101X-YY

09P - 101 X - YY ➔ 09P-101K-51
(Model) (Inductance Value) (Tolerance) (Packaging Code)

Core Type - Ferrite

Tolerances - J (±5%), K (±10%), M (±20%)

Packaging Code - 50 (Loose in Box) / (Tray / Box), 51 (Taped / Reel)

Pluggable Inductors (Pin Type Coils)

Packaging
Specification

Reel Taping
Packaging code: 51

Fig 1

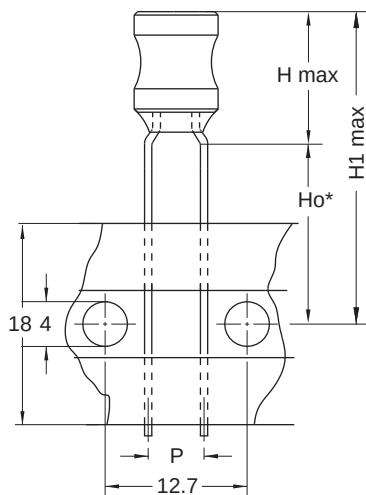


Fig 2

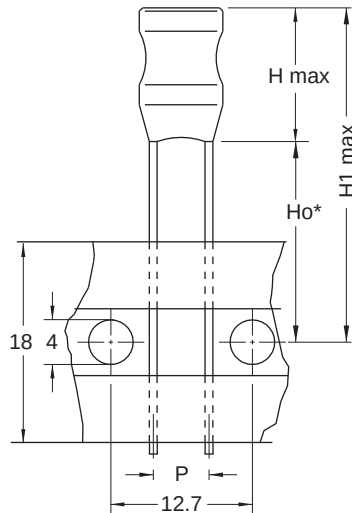


Fig 3

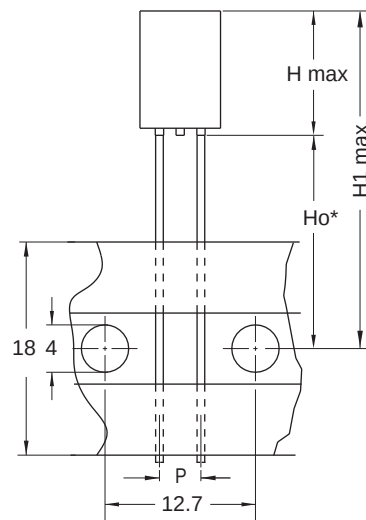


Fig 4

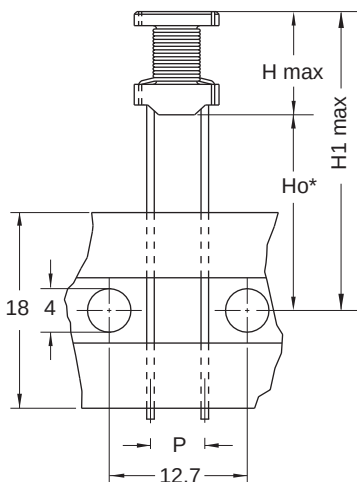
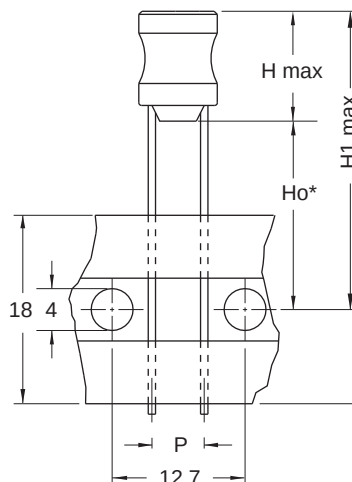


Fig 5

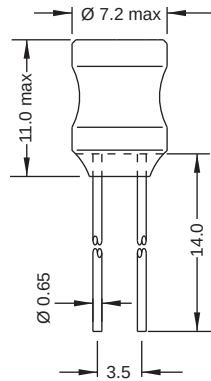


*according to IEC 286

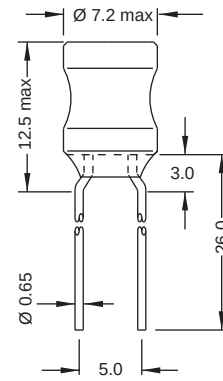
Series	H max	Ho	H1 max	P	Fig
07P	12.5	16	28	5	1
07P/F	10.5	18	32.2	3.5	3
09P	12.5	18	32.2	5	2
09P/F	13.4	18	32.2	5	3
07HCP & 07HVP	10	18	32.2	5	4
07HCP/T & 07HVP/T	10.5	18	32.2	5	5
11P / 11PHC	15	18	34	5	2
05HCP	7.5	18	28.5	2.5	4
05HCP/T	7.5	18	28.5	2.5	5
07HCPLP	8.0	18	29.0	5	4
07HCPLP/T	8.0	18	29.0	5	5

07 P

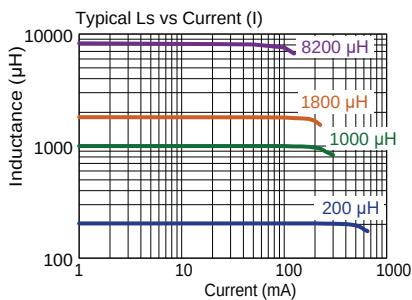
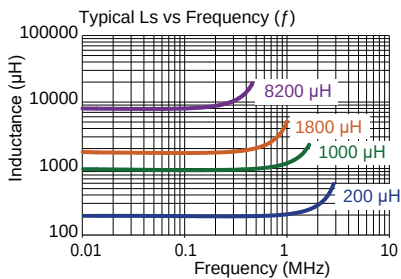
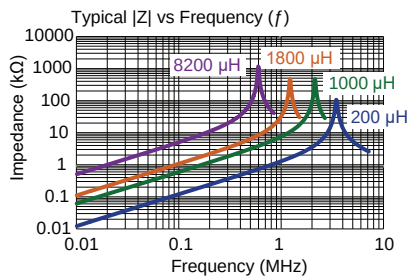
With Tube



Loose / Box [-50]



Taped / Reel [-51]



Part No	Inductance	f _L	Tol	Q	f _Q	SRF _{min}	DCR _{max}	Rated DC Current
	L (μH)	(MHz)	± (%)	min	(MHz)	(MHz)	(Ω)	
07P-201X-YY	200	0.02	5,10	80	0.796	3.20	0.90	450
07P-221X-YY	220	0.02	5,10	80	0.796	2.85	1.00	450
07P-681X-YY	680	0.02	5,10	80	0.796	2.00	3.10	250
07P-102X-YY	1000	0.02	5,10	115	0.796	1.80	3.55	220
07P-152X-YY	1500	0.02	5,10	115	0.252	1.05	5.20	155
07P-182X-YY	1800	0.02	5,10	115	0.252	1.05	5.70	150
07P-222X-YY	2200	0.02	5,10	115	0.252	1.00	6.50	150
07P-392X-YY	3900	0.02	5,10	100	0.252	0.70	12.00	100
07P-472X-YY	4700	0.02	5,10	100	0.252	0.65	13.50	100
07P-562X-YY	5600	0.02	5,10	100	0.252	0.60	15.00	80
07P-822X-YY	8200	0.02	5,10	100	0.252	0.45	27.35	80

Core Material: Ferrite

Revision date: 29 Jul 2022

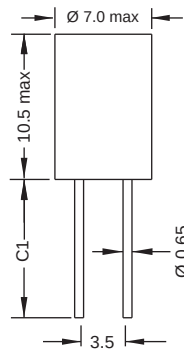
SPQ:

Packaging Form	Loose / Box	Taped / Reel
Radial	500 [-50]	700 [-51]

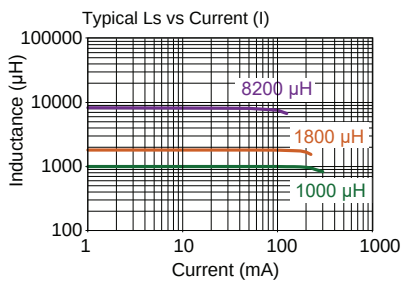
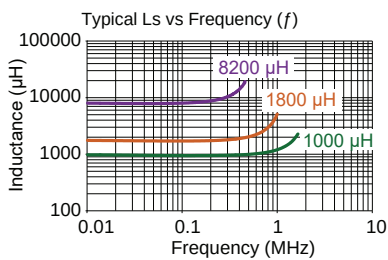
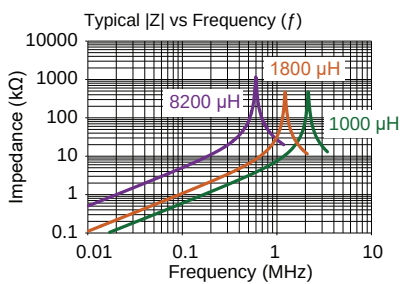
Remarks: - Also available without tube.
- Also available with shorter leads.

07 P/F

With Cap



Packaging	C1
Loose / Box	10.5
Taped / Reel	26.0



Part No	Inductance L (μH)	f _L (MHz)	Tol ± (%)	Q min	f _Q (MHz)	SRF min (MHz)	DCR max (Ω)	Rated DC Current (mA)
07P/F-681K-YY	680	0.02	10	80	0.796	2.00	3.10	250
07P/F-102X-YY	1000	0.02	5,10	115	0.796	1.80	3.55	220
07P/F-152X-YY	1500	0.02	5,10	115	0.252	1.05	5.20	155
07P/F-182X-YY	1800	0.02	5,10	115	0.252	1.05	5.70	150
07P/F-222X-YY	2200	0.02	5,10	115	0.252	1.00	6.50	150
07P/F-392X-YY	3900	0.02	5,10	100	0.252	0.70	12.00	100
07P/F-472X-YY	4700	0.02	5,10	100	0.252	0.65	13.50	100
07P/F-562X-YY	5600	0.02	5,10	100	0.252	0.60	15.00	80
07P/F-822X-YY	8200	0.02	5,10	100	0.252	0.45	27.35	80

Core Material: Ferrite

Revision date: 29 Jul 2022

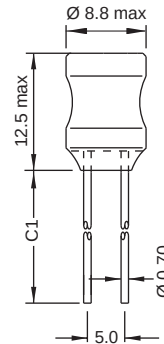
SPQ:

Packaging Form	Loose / Box	Taped / Reel
Radial	500 [-50]	700 [-51]

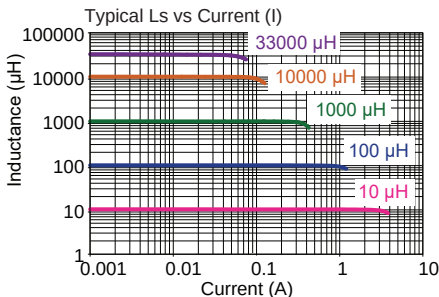
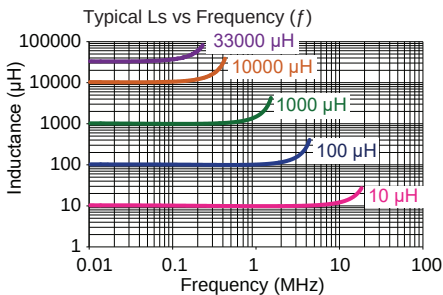
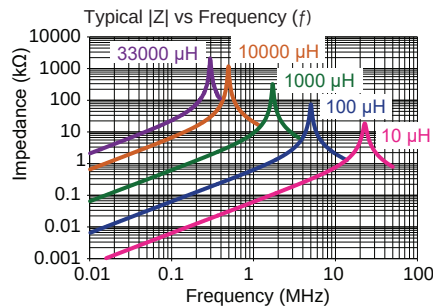
Remarks: Also available with shorter leads.

09 P

With Tube



Packaging	C1
Loose / Box [-50]	11
Taped / Reel [-51]	25



Part No	Inductance L (μH)	f _L (MHz)	Tol ± (%)	Q min	f _Q (MHz)	SRF min (MHz)	DCR max (Ω)	Rated DC Current (A)	
								Isat typ	I _{max}
09P-1R0K-YY	1.0	1.00	10	20	7.96	120.0	0.025	8.000	8.000
09P-100K-YY	10	0.02	10	85	2.52	18.0	0.03	2.720	3.150
09P-150K-YY	15	0.02	10	70	2.52	14.0	0.04	1.880	3.000
09P-220K-YY	22	0.02	10	55	2.52	12.0	0.05	1.800	2.500
09P-270K-YY	27	0.02	10	55	2.52	10.5	0.07	1.600	2.320
09P-330K-YY	33	0.02	10	55	2.52	8.35	0.08	1.550	2.265
09P-470K-YY	47	0.02	10	50	2.52	6.50	0.10	1.200	2.000
09P-560K-YY	56	0.02	10	40	2.52	6.00	0.12	1.000	1.800
09P-680K-YY	68	0.02	10	40	2.52	5.00	0.20	0.950	1.340
09P-101K-YY	100	0.02	10	40	0.796	4.50	0.25	0.810	1.200
09P-121K-YY	120	0.02	10	40	0.796	4.20	0.28	0.740	1.140
09P-151K-YY	150	0.02	10	40	0.796	3.50	0.35	0.650	1.000
09P-221K-YY	220	0.02	10	40	0.796	3.00	0.50	0.530	0.800
09P-271K-YY	270	0.02	10	40	0.796	3.00	0.55	0.500	0.750
09P-331K-YY	330	0.02	10	40	0.796	2.05	0.95	0.450	0.650
09P-391K-YY	390	0.02	10	40	0.796	2.00	1.05	0.400	0.550
09P-471K-YY	470	0.02	10	40	0.796	1.80	1.30	0.400	0.540
09P-561K-YY	560	0.02	10	40	0.796	1.75	1.45	0.350	0.500
09P-681K-YY	680	0.02	10	40	0.796	1.60	1.65	0.300	0.450
09P-821K-YY	820	0.02	10	70	0.252	1.50	2.20	0.250	0.400
09P-102X-YY	1000	0.02	5,10	70	0.252	1.40	2.30	0.250	0.400
09P-122X-YY	1200	0.02	5,10	70	0.252	1.20	2.65	0.225	0.350
09P-152X-YY	1500	0.02	5,10	70	0.252	1.00	3.30	0.200	0.300
09P-182X-YY	1800	0.02	5,10	70	0.252	0.95	3.90	0.200	0.300
09P-222X-YY	2200	0.02	5,10	70	0.252	0.90	5.05	0.155	0.250
09P-272X-YY	2700	0.02	5,10	75	0.252	0.75	7.00	0.150	0.225
09P-332X-YY	3300	0.02	5,10	75	0.252	0.65	8.00	0.150	0.200
09P-392X-YY	3900	0.02	5,10	75	0.252	0.65	10.00	0.140	0.200
09P-472X-YY	4700	0.02	5,10	75	0.252	0.65	11.50	0.120	0.180
09P-562X-YY	5600	0.02	5,10	75	0.252	0.55	13.00	0.120	0.180
09P-682X-YY	6800	0.02	5,10	75	0.252	0.55	14.50	0.100	0.160
09P-822X-YY	8200	0.02	5,10	80	0.252	0.55	19.50	0.100	0.140
09P-103X-YY	10000	0.02	5,10	80	0.079	0.35	23.00	0.080	0.140
09P-123X-YY	12000	0.02	5,10	80	0.079	0.35	28.00	0.075	0.135
09P-153X-YY	15000	0.02	5,10	80	0.079	0.30	35.00	0.060	0.100
09P-183X-YY	18000	0.02	5,10	80	0.079	0.30	42.00	0.060	0.100
09P-223X-YY	22000	0.02	5,10	80	0.079	0.25	49.00	0.035	0.090
09P-273X-YY	27000	0.02	5,10	80	0.079	0.25	60.00	0.035	0.085
09P-333X-YY	33000	0.02	5,10	80	0.079	0.22	63.00	0.035	0.075

Core Material: Ferrite

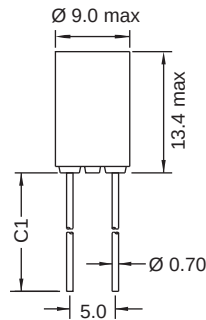
Revision date: 03 Aug 2022

SPQ:	Packaging Form	Loose / Box	Taped / Reel
	Radial	500 [-50]	500 [-51]

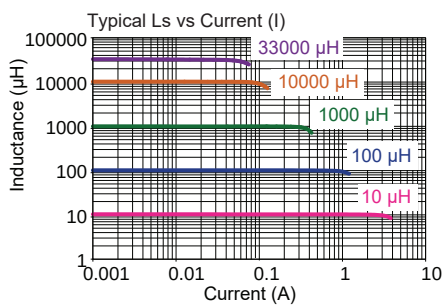
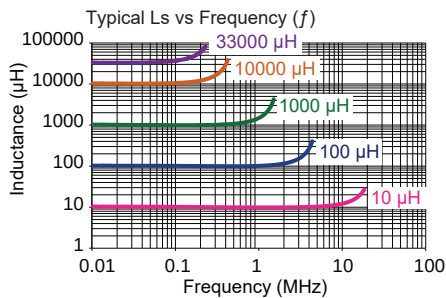
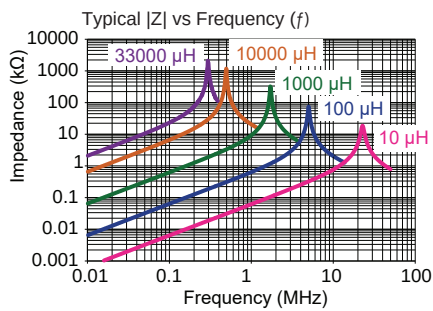
Remarks: - Also available without tube.
- Also available with shorter leads.

09 P/F

With Cap



Packaging	C1
Loose / Box [-50]	10.5
Taped / Reel [-51]	26.0



Part No	Inductance L (μH)	fL (MHz)	Tol ± (%)	Q min	fQ (MHz)	SRF min (MHz)	DCR max (Ω)	Rated DC Current (A)	
								Isat typ	I _{max}
09P/F-100K-YY	10	0.02	10	85	2.52	18.0	0.03	2.720	3.150
09P/F-150K-YY	15	0.02	10	70	2.52	14.0	0.04	1.880	3.000
09P/F-220K-YY	22	0.02	10	55	2.52	12.0	0.05	1.800	2.500
09P/F-270K-YY	27	0.02	10	55	2.52	10.5	0.07	1.600	2.320
09P/F-330K-YY	33	0.02	10	55	2.52	8.35	0.08	1.550	2.265
09P/F-470K-YY	47	0.02	10	50	2.52	6.50	0.10	1.200	2.000
09P/F-560K-YY	56	0.02	10	40	2.52	6.00	0.12	1.000	1.800
09P/F-680K-YY	68	0.02	10	40	2.52	5.00	0.20	0.950	1.340
09P/F-101K-YY	100	0.02	10	40	0.796	4.50	0.25	0.810	1.200
09P/F-121K-YY	120	0.02	10	40	0.796	4.20	0.28	0.740	1.140
09P/F-151K-YY	150	0.02	10	40	0.796	3.50	0.35	0.650	1.000
09P/F-221K-YY	220	0.02	10	40	0.796	3.00	0.50	0.530	0.800
09P/F-271K-YY	270	0.02	10	40	0.796	3.00	0.55	0.500	0.750
09P/F-331K-YY	330	0.02	10	40	0.796	2.05	0.95	0.450	0.650
09P/F-391K-YY	390	0.02	10	40	0.796	2.00	1.05	0.400	0.550
09P/F-471K-YY	470	0.02	10	40	0.796	1.80	1.30	0.400	0.540
09P/F-561K-YY	560	0.02	10	40	0.796	1.75	1.45	0.350	0.500
09P/F-681K-YY	680	0.02	10	40	0.796	1.60	1.65	0.300	0.450
09P/F-821K-YY	820	0.02	10	70	0.252	1.50	2.20	0.250	0.400
09P/F-102X-YY	1000	0.02	5,10	70	0.252	1.40	2.30	0.250	0.400
09P/F-122X-YY	1200	0.02	5,10	70	0.252	1.20	2.65	0.225	0.350
09P/F-152X-YY	1500	0.02	5,10	70	0.252	1.00	3.30	0.200	0.300
09P/F-182X-YY	1800	0.02	5,10	70	0.252	0.95	3.90	0.200	0.300
09P/F-222X-YY	2200	0.02	5,10	70	0.252	0.90	5.05	0.155	0.250
09P/F-272X-YY	2700	0.02	5,10	75	0.252	0.75	7.00	0.150	0.225
09P/F-332X-YY	3300	0.02	5,10	75	0.252	0.65	8.00	0.150	0.200
09P/F-392X-YY	3900	0.02	5,10	75	0.252	0.65	10.00	0.140	0.200
09P/F-472X-YY	4700	0.02	5,10	75	0.252	0.65	11.50	0.120	0.180
09P/F-562X-YY	5600	0.02	5,10	75	0.252	0.55	13.00	0.120	0.180
09P/F-682X-YY	6800	0.02	5,10	75	0.252	0.55	14.50	0.100	0.160
09P/F-822X-YY	8200	0.02	5,10	80	0.252	0.55	19.50	0.100	0.140
09P/F-103X-YY	10000	0.02	5,10	80	0.079	0.35	23.00	0.080	0.140
09P/F-123X-YY	12000	0.02	5,10	80	0.079	0.35	28.00	0.075	0.135
09P/F-153X-YY	15000	0.02	5,10	80	0.079	0.30	35.00	0.060	0.100
09P/F-183X-YY	18000	0.02	5,10	80	0.079	0.30	42.00	0.060	0.100
09P/F-223X-YY	22000	0.02	5,10	80	0.079	0.25	49.00	0.035	0.090
09P/F-273X-YY	27000	0.02	5,10	80	0.079	0.25	60.00	0.035	0.085
09P/F-333X-YY	33000	0.02	5,10	80	0.079	0.22	63.00	0.035	0.075

Core Material: Ferrite

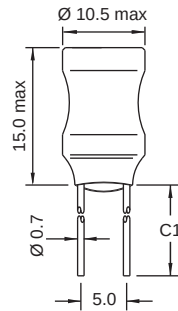
Revision date: 28 Jul 2022

SPQ:	Packaging Form	Loose / Box	Taped / Reel
	Radial	500 [-50]	500 [-51]

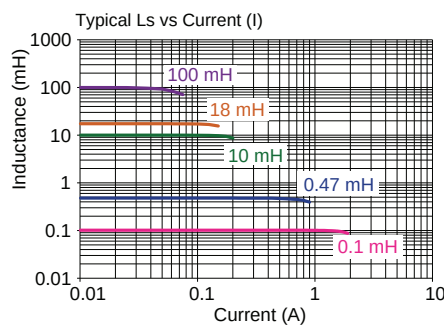
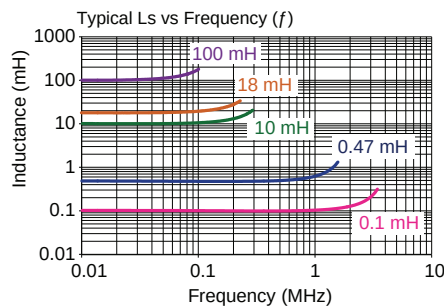
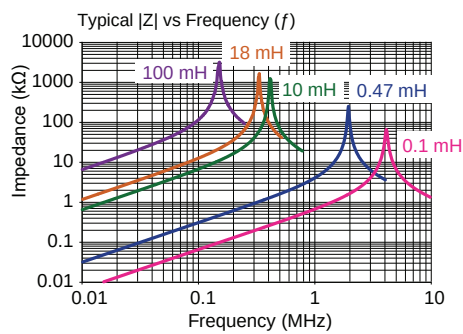
Remarks: Also available with shorter leads.

11 P

With Tube



Packaging	C1
Loose / Box [-50]	10
Taped / Reel [-51]	25



Part No	Inductance L (mH)	f _L (MHz)	Tol ± (%)	Q min	f _q (MHz)	SRF min (MHz)	DCR max (Ω)	Rated DC Current (A)	
								I _{sat} typ	I _{max}
11P-101K-YY	0.10	0.02	10	55	0.796	3.25	0.18	1.450	1.650
11P-221K-YY	0.22	0.02	10	45	0.796	2.30	0.32	1.000	1.250
11P-331K-YY	0.33	0.02	10	35	0.796	1.85	0.55	0.800	0.950
11P-471K-YY	0.47	0.02	10	30	0.796	1.55	0.65	0.650	0.900
11P-332X-YY	3.30	0.02	5,10	45	0.252	0.60	3.70	0.250	0.350
11P-103X-YY	10.0	0.02	5,10	95	0.079	0.35	13.5	0.140	0.185
11P-153X-YY	15.0	0.02	5,10	95	0.079	0.28	19.5	0.120	0.160
11P-183X-YY	18.0	0.02	5,10	95	0.079	0.28	21.0	0.095	0.145
11P-223X-YY	22.0	0.02	5,10	80	0.079	0.20	28.0	0.090	0.140
11P-333X-YY	33.0	0.02	5,10	80	0.079	0.20	41.0	0.080	0.110
11P-393X-YY	39.0	0.02	5,10	80	0.079	0.19	47.0	0.075	0.100
11P-473X-YY	47.0	0.02	5,10	75	0.079	0.18	54.0	0.055	0.090
11P-683X-YY	68.0	0.02	5,10	75	0.025	0.13	76.0	0.040	0.080
11P-823X-YY	82.0	0.02	5,10	75	0.025	0.13	99.0	0.035	0.075
11P-104X-YY	100	0.02	5,10	75	0.025	0.12	140	0.035	0.060
11P-124X-YY	120	0.02	5,10	65	0.025	0.09	174	0.020	0.055
11P-154X-YY	150	0.02	5,10	65	0.025	0.08	200	0.020	0.045

Core Material: Ferrite

Revision date: 12 Aug 2022

SPQ:

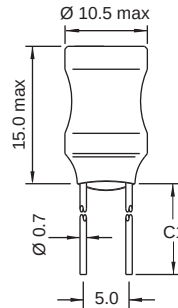
Packaging Form	Loose / Box	Taped / Reel
Radial	250 [-50]	500 [-51]

Remarks: - Also available without tube.

- Also available with shorter leads.

11 PHC

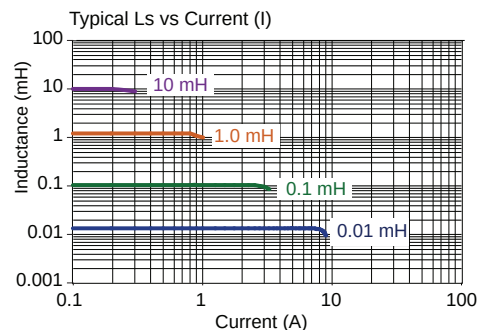
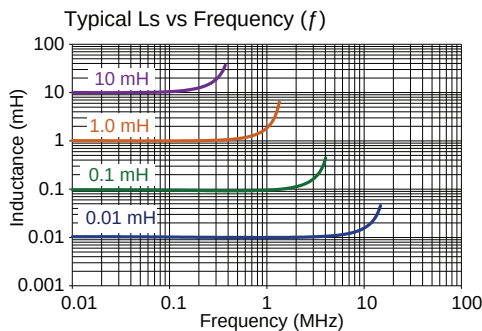
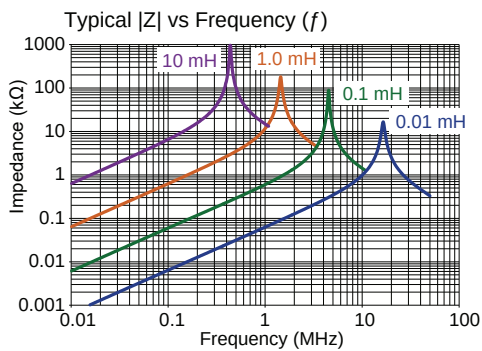
With Tube
For High Currents



Packaging	C1
Loose / Box	[-50] 10
Taped / Reel	[-51] 25

(Pin Type Coils)

Pluggable Inductors



Part No	Inductance L (mH)	f _L (MHz)	Tol ± (%)	DCR max (Ω)	Rated DC Current (A)	
					I _{sat}	I _{max}
11PHC-100K-YY	0.01	0.02	10	0.03	6.66	4.07
11PHC-101K-YY	0.10	0.02	10	0.16	2.47	1.84
11PHC-221K-YY	0.22	0.02	10	0.37	1.68	1.00
11PHC-331K-YY	0.33	0.02	10	0.53	1.42	0.97
11PHC-471K-YY	0.47	0.02	10	0.76	1.17	0.72
11PHC-561K-YY	0.56	0.02	10	0.83	1.10	0.74
11PHC-701K-YY	0.70	0.02	10	1.27	0.96	0.56
11PHC-761K-YY	0.76	0.02	10	1.35	0.96	0.54
11PHC-102K-YY	1.00	0.02	10	1.60	0.85	0.53
11PHC-152K-YY	1.50	0.02	10	2.33	0.50	0.60
11PHC-162K-YY	1.60	0.02	10	2.50	0.70	0.50
11PHC-222K-YY	2.20	0.02	10	3.70	0.50	0.34
11PHC-272K-YY	2.70	0.02	10	4.14	0.47	0.33
11PHC-332K-YY	3.30	0.02	10	5.51	0.42	0.27
11PHC-103K-YY	10	0.02	10	15.78	0.26	0.15
11PHC-123K-YY	12	0.02	10	21.85	0.23	0.13
11PHC-153K-YY	15	0.02	10	28.75	0.19	0.12
11PHC-183K-YY	18	0.02	10	32.20	0.20	0.12
11PHC-223K-YY	22	0.02	10	43	0.16	0.10
11PHC-273K-YY	27	0.02	10	47	0.14	0.10
11PHC-333K-YY	33	0.02	10	77	0.12	0.08
11PHC-373K-YY	37	0.02	10	82	0.11	0.08
11PHC-393K-YY	39	0.02	10	84	0.12	0.08
11PHC-473K-YY	47	0.02	10	97	0.09	0.07

Core Material: Ferrite

Revision date: 29 Aug 2022

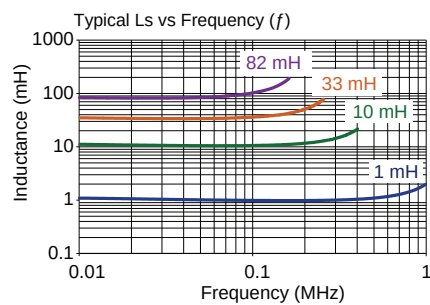
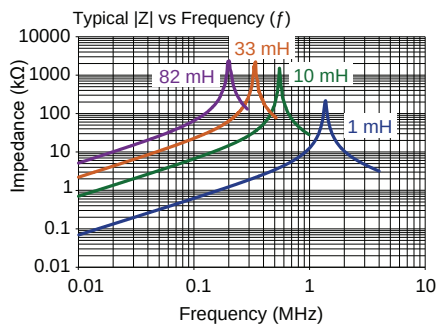
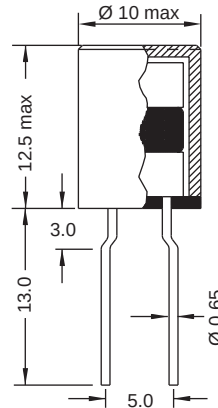
SPQ:	Packaging Form	Loose / Box	Taped / Reel
	Radial	250 [-50]	500 [-51]

- Remarks:**
- Unlisted inductance values available upon request.
 - 5% tolerance available upon request.
 - Also available without tube.
 - Also available with shorter leads.

07M

Shielded

Also available in 3.5mm pitch (**07MFG**)



Part No	Inductance L (mH)	f_L (MHz)	Tol $\pm$ (%)	Q min	f_Q (MHz)	DCR max (Ω)	Rated DC Current I _{max} (mA)
07M-102K-50	1.0	0.02	10	130	0.252	2.00	350
07M-152K-50	1.5	0.02	10	130	0.252	2.30	335
07M-182K-50	1.8	0.02	10	120	0.252	2.70	330
07M-222K-50	2.2	0.02	10	120	0.252	3.00	315
07M-332K-50	3.3	0.02	10	115	0.252	3.80	300
07M-392K-50	3.9	0.02	10	115	0.252	4.30	260
07M-472K-50	4.7	0.02	10	110	0.252	4.90	235
07M-682K-50	6.8	0.02	10	150	0.079	6.55	230
07M-103K-50	10	0.02	10	150	0.079	8.55	200
07M-153K-50	15	0.02	10	150	0.079	13.50	150
07M-223K-50	22	0.02	10	150	0.079	18.50	140
07M-273K-50	27	0.02	10	140	0.079	22.00	120
07M-333K-50	33	0.02	10	135	0.079	26.00	110
07M-393K-50	39	0.02	10	130	0.079	38.00	100
07M-473K-50	47	0.02	10	100	0.079	48.50	85
07M-563K-50	56	0.02	10	100	0.079	55.00	75
07M-683K-50	68	0.02	10	100	0.079	64.50	70
07M-823K-50	82	0.02	10	75	0.079	71.00	70

Core Material: Ferrite

Revision date: 03 Aug 2022

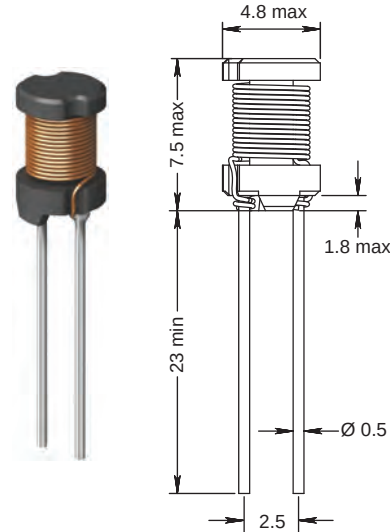
SPQ:	Packaging Form	Loose / Box
	Radial	250 [-50]

Remarks: - Also available with shorter leads.

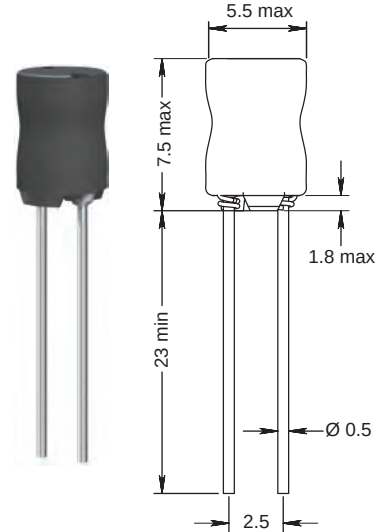
- No cleaning on 07M and 07MFG is recommended once assembled on the PCB.
- Manual soldering is recommended for models 07M and 07MFG.

05 HCP, 05 HCP/T

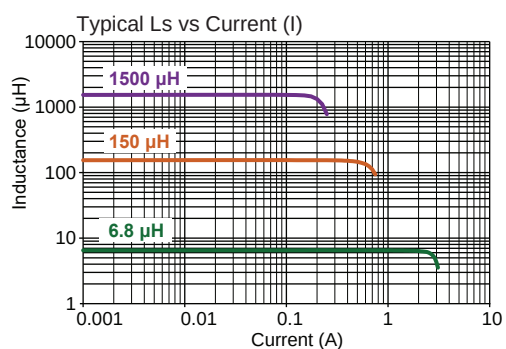
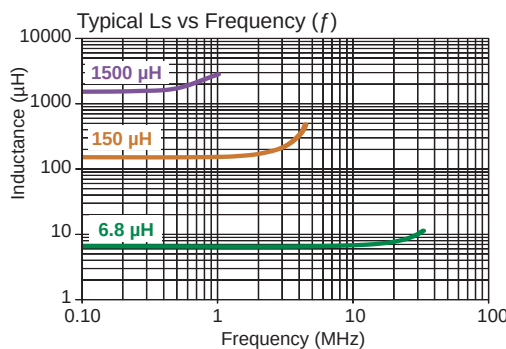
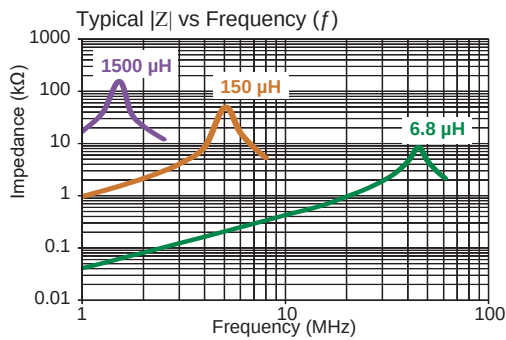
For High Currents



05 HCP



05 HCP/T
(With Tube)



Part No	Inductance L (μ H)	f_L (kHz)	Tol. $\pm$ (%)	SRF typ (MHz)	DCR max (Ω)	Rated DC Current (A)	
						I_{max}	I_{sat} typ
05HCP-6R8M-51	6.8	10 @ 0.1 V	20	35.00	0.070	1.685	1.850
05HCP-100K-51	10	10 @ 0.1 V	10	23.00	0.090	1.485	1.600
05HCP-180K-51	18	10 @ 0.1 V	10	14.00	0.120	1.320	1.200
05HCP-220K-51	22	10 @ 0.1 V	10	12.00	0.140	1.100	1.100
05HCP-330K-51	33	10 @ 0.1 V	10	10.00	0.172	1.070	0.870
05HCP-470K-51	47	10 @ 0.1 V	10	8.00	0.218	0.960	0.740
05HCP-820K-51	82	10 @ 0.1 V	10	6.00	0.370	0.720	0.550
05HCP-101K-51	100	10 @ 0.1 V	10	5.00	0.500	0.600	0.500
05HCP-151K-51	150	10 @ 0.1 V	10	4.30	0.635	0.560	0.400
05HCP-221K-51	220	10 @ 0.1 V	10	3.50	0.965	0.450	0.320
05HCP-331K-51	330	10 @ 0.1 V	10	2.35	1.946	0.320	0.300
05HCP-471K-51	470	10 @ 0.1 V	10	2.35	1.946	0.320	0.220
05HCP-821K-51	820	10 @ 0.1 V	10	1.76	3.750	0.240	0.170
05HCP-102K-51	1000	10 @ 0.1 V	10	1.50	4.420	0.205	0.150
05HCP-152K-51	1500	10 @ 0.1 V	10	1.20	6.620	0.168	0.125

Core Material: Ferrite

Revision date: 23 Aug 2022

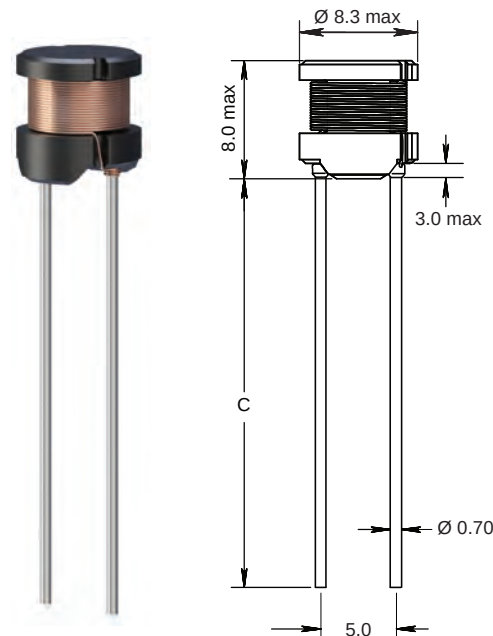
SPQ:	Packaging Form	Taped / Reel
	Radial	1000 [-51]

07 HCPLP, 07 HCPLP/T

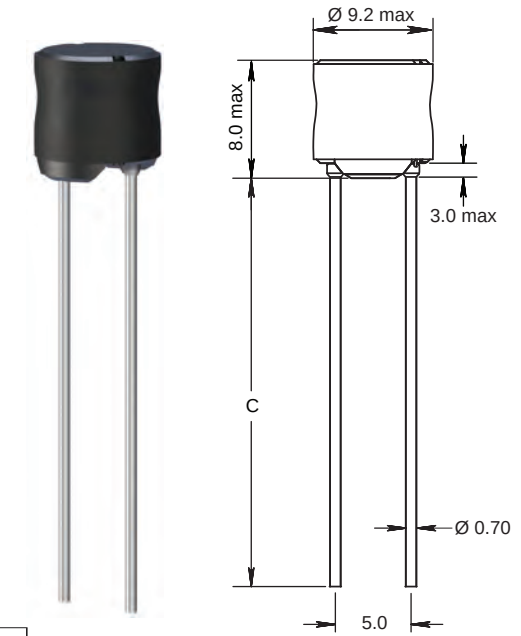
For High Currents, Low Profile Design



PRELIMINARY



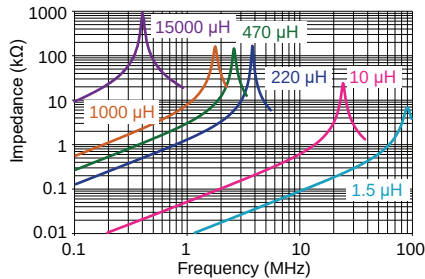
07 HCPLP



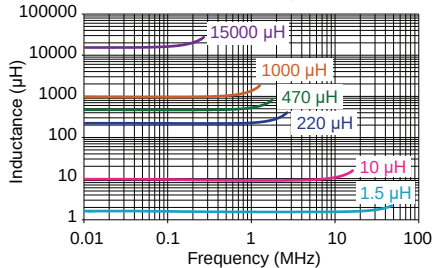
07 HCPLP/T
(With Tube)

Packaging	C
Loose / Box [-50]	13.0
Taped / Reel [-51]	26.0

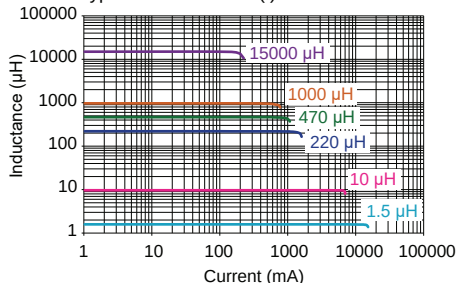
Typical |Z| vs Frequency (f)



Typical Ls vs Frequency (f)



Typical Ls vs Current (I)



Part No	Inductance L (μH)	f _L (kHz)	Tol. ± (%)	SRF MHz typ	DCR max (Ω)	Rated DC Current (A)	
						I _{max}	I _{sat} typ
* 07HCPLP-1R5M-YY	1.5	100 @ 0.25 V	20	85.00	0.02	5.60	10.50
07HCPLP-100M-YY	10	100 @ 0.25 V	20	20.00	0.05	3.75	5.50
07HCPLP-470M-YY	47	100 @ 0.25 V	20	7.55	0.15	1.68	2.30
07HCPLP-121M-YY	120	100 @ 0.25 V	20	4.30	0.38	0.98	1.50
07HCPLP-221M-YY	220	100 @ 0.25 V	20	3.20	0.72	0.70	1.20
07HCPLP-331M-YY	330	100 @ 0.25 V	20	2.70	1.00	0.60	1.05
07HCPLP-471M-YY	470	100 @ 0.25 V	20	2.20	1.55	0.45	0.85
07HCPLP-681M-YY	680	100 @ 0.25 V	20	1.80	2.00	0.42	0.75
07HCPLP-102M-YY	1000	100 @ 0.25 V	20	1.50	3.20	0.35	0.55
07HCPLP-152M-YY	1500	100 @ 0.25 V	20	1.15	4.30	0.30	0.50
07HCPLP-153M-YY	15000	100 @ 0.25 V	20	0.31	50	0.10	0.15

Core Material: Ferrite

Revision date: 29 Jan 2024

SPQ:	Packaging Form	Loose / Box	Taped / Reel
	Radial	500 [-50]	500 [-51]

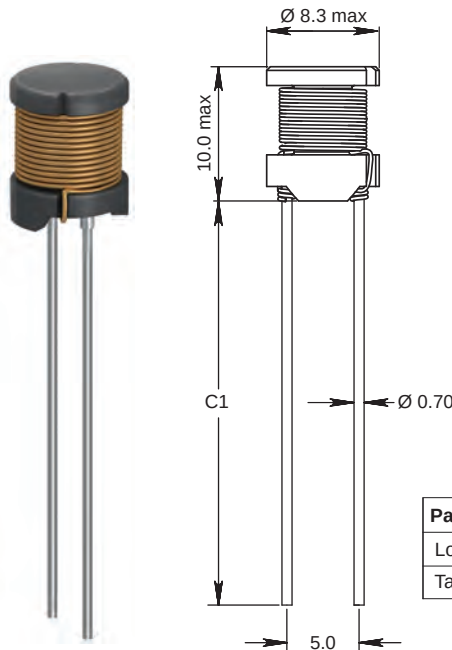
Remarks: - Unlisted inductance values available upon request.

- All 07HCPLP are specified for 150°C except the model with *, which are specified for 125°C.

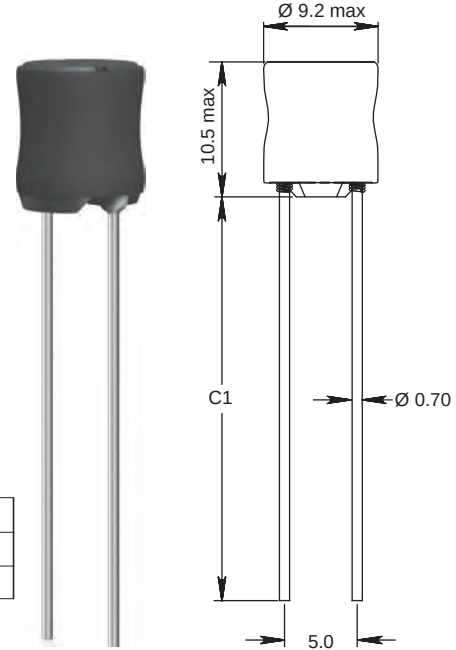
- Short leads available upon request.

07 HCP, 07 HCP/T

For High Currents

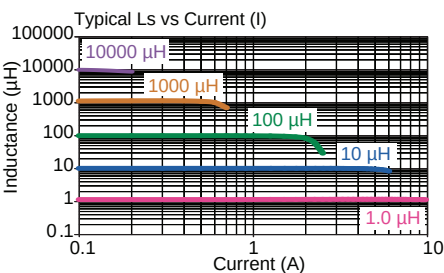
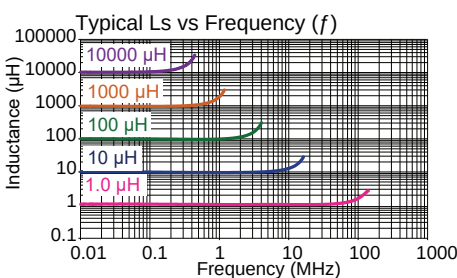
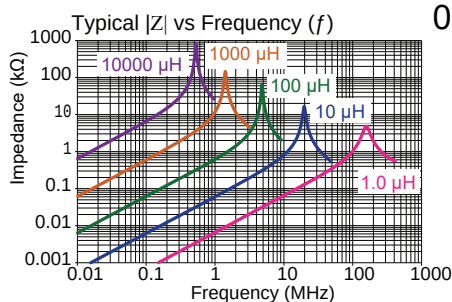


07 HCP



07 HCP/T
(With Tube)

Packaging	C1
Loose / Box [-50]	13.0
Taped / Reel [-51]	26.0



Core Material: Ferrite

SPQ:

Packaging Form	Loose / Box	Taped / Reel
Radial	500 [-50]	500 [-51]

Remarks:

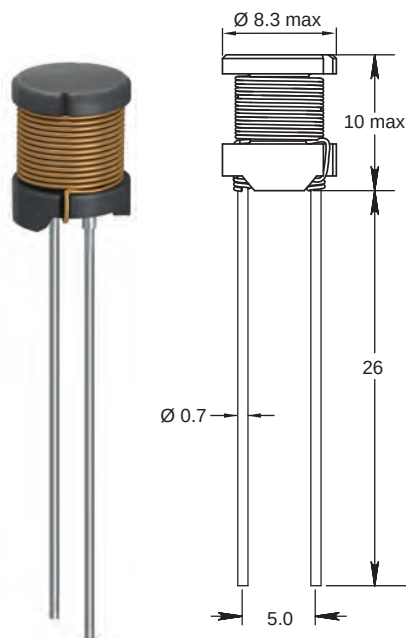
- Also available with shorter leads.
- All 07HCP, 07HCP/T are specified for 150°C except the models with *, which are specified for 125°C.

Part No	Inductance L (μH)	f _L (kHz)	Tol. ± (%)	DCR max (Ω)	Rated DC Current (A)	
					I _{max}	I _{sat typ}
* 07HCP-1R0M-YY	1.0	1 @ 0.25 V	20	0.010	7.50	10.0
* 07HCP-2R2M-YY	2.2	1 @ 0.25 V	20	0.010	6.00	8.00
* 07HCP-3R3M-YY	3.3	1 @ 0.25 V	20	0.013	5.00	6.30
07HCP-4R7M-YY	4.7	1 @ 0.25 V	20	0.018	4.00	5.40
* 07HCP-6R8M-YY	6.8	1 @ 0.25 V	20	0.025	3.80	6.50
* 07HCP-7R5M-YY	7.5	1 @ 0.25 V	20	0.030	3.00	5.00
07HCP-100M-YY	10	1 @ 0.25 V	20	0.040	2.60	5.00
07HCP-220X-YY	22	1 @ 0.25 V	10,20	0.055	2.30	3.60
07HCP-330X-YY	33	1 @ 0.25 V	10,20	0.10	1.50	2.50
07HCP-470X-YY	47	1 @ 0.25 V	10,20	0.10	1.30	2.50
07HCP-680X-YY	68	1 @ 0.25 V	10,20	0.14	1.10	2.10
07HCP-820X-YY	82	1 @ 0.25 V	10,20	0.16	1.00	1.90
07HCP-101X-YY	100	1 @ 0.25 V	10,20	0.20	0.90	1.60
07HCP-121X-YY	120	1 @ 0.25 V	10,20	0.22	0.85	1.20
07HCP-151X-YY	150	1 @ 0.25 V	10,20	0.36	0.85	1.20
07HCP-221X-YY	220	1 @ 0.25 V	10,20	0.38	0.64	1.20
07HCP-271X-YY	270	1 @ 0.25 V	10,20	0.70	0.64	0.95
07HCP-331X-YY	330	1 @ 0.25 V	10,20	0.70	0.51	0.95
07HCP-391X-YY	390	1 @ 0.25 V	10,20	0.89	0.50	0.80
07HCP-471X-YY	470	1 @ 0.25 V	10,20	0.89	0.43	0.80
07HCP-681X-YY	680	1 @ 0.25 V	10,20	1.43	0.43	0.70
07HCP-821X-YY	820	1 @ 0.25 V	10,20	1.56	0.36	0.70
07HCP-102X-YY	1000	1 @ 0.25 V	10,20	1.95	0.30	0.50
07HCP-122X-YY	1200	1 @ 0.25 V	10,20	2.90	0.30	0.39
07HCP-152X-YY	1500	1 @ 0.25 V	10,20	3.30	0.30	0.30
07HCP-182X-YY	1800	1 @ 0.25 V	10,20	3.30	0.21	0.35
07HCP-222X-YY	2200	1 @ 0.25 V	10,20	5.30	0.19	0.25
07HCP-272X-YY	2700	1 @ 0.25 V	10,20	6.80	0.24	0.17
07HCP-332X-YY	3300	1 @ 0.25 V	10,20	9.30	0.14	0.22
07HCP-402X-YY	4000	1 @ 0.25 V	10,20	10.30	0.14	0.22
07HCP-472X-YY	4700	1 @ 0.25 V	10,20	16.50	0.14	0.17
07HCP-103X-YY	10000	1 @ 0.25 V	10,20	24.00	0.14	0.17

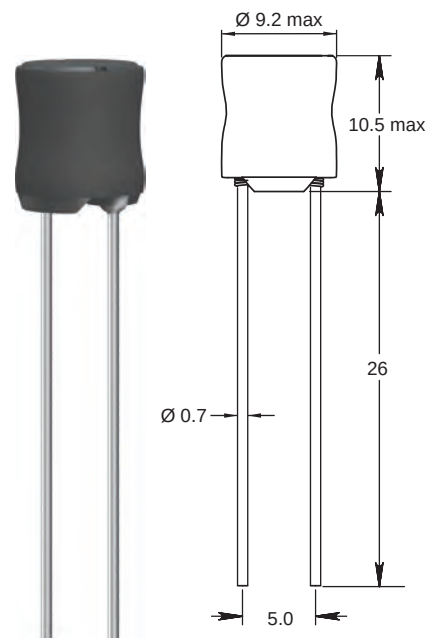
Revision date: 26 Aug 2022

07 HVP, 07 HVP/T

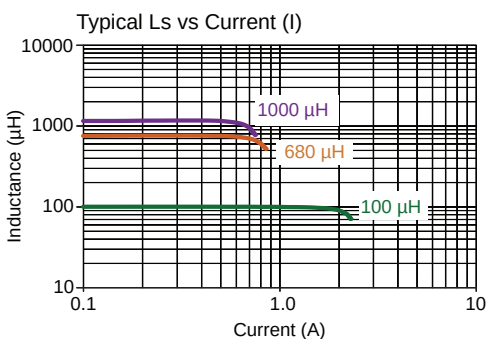
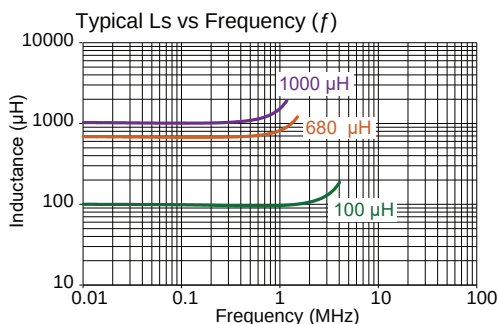
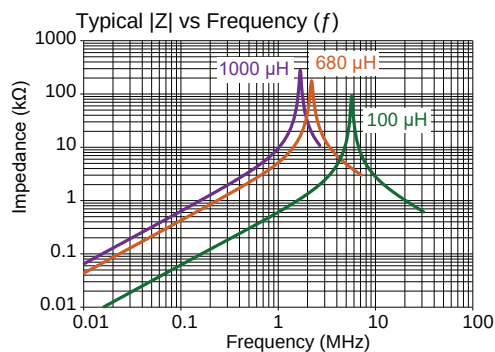
For High Voltages up to 400V DC



07 HVP



07 HVP/T
(With Tube)



Part No	Inductance	f_L	Tol	SRF	DCR	Rated DC Current (A)	
	L (μH)	(kHz)	± (%)	typ (MHz)	max (Ω)	I _{max}	I _{sat} typ
07HVP-560K-51	56	1 @ 0.25 V	10	5.97	0.13	1.93	1.97
07HVP-101K-51	100	1 @ 0.25 V	10	4.42	0.23	1.44	1.60
07HVP-121K-51	120	1 @ 0.25 V	10	3.80	0.29	1.14	1.45
07HVP-221K-51	220	1 @ 0.25 V	10	3.14	0.52	1.00	1.10
07HVP-271K-51	270	1 @ 0.25 V	10	2.60	0.70	0.68	1.00
07HVP-331K-51	330	1 @ 0.25 V	10	2.20	0.75	0.68	0.90
07HVP-471K-51	470	1 @ 0.25 V	10	2.00	1.18	0.58	0.75
07HVP-681K-51	680	1 @ 0.25 V	10	1.66	1.57	0.57	0.68
07HVP-821K-51	820	1 @ 0.25 V	10	1.45	1.97	0.53	0.59
07HVP-102K-51	1000	1 @ 0.25 V	10	1.30	2.57	0.44	0.50
07HVP-122K-51	1200	1 @ 0.25 V	10	1.26	2.98	0.34	0.55
07HVP-222K-51	2200	1 @ 0.25 V	10	0.90	5.20	0.26	0.32

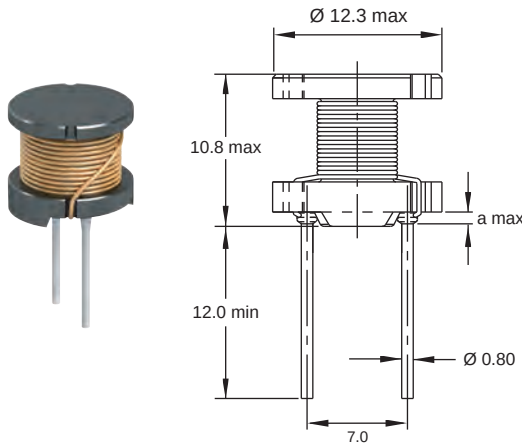
Core Material: Ferrite

Revision date: 25 Aug 2022

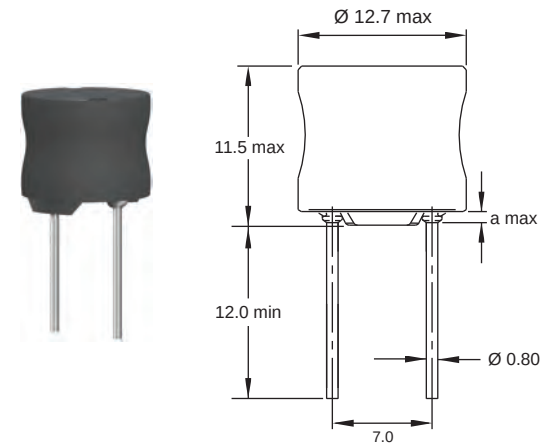
SPQ:	Packaging Form	Taped / Reel
	Radial	500 [-51]

09 HCP, 09 HCP/T

For High Currents

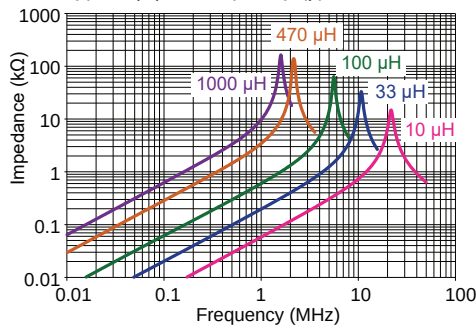


09 HCP

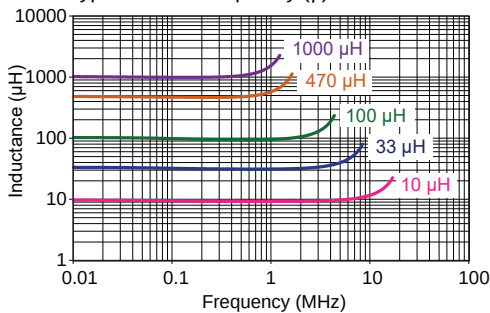


09 HCP/T
(With Tube)

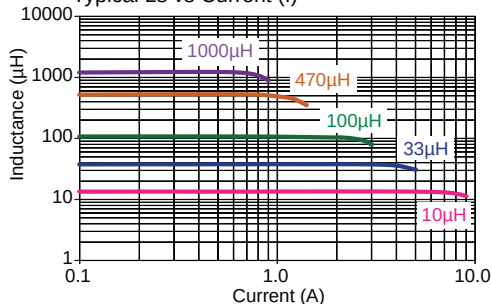
Typical |Z| vs Frequency (f)



Typical Ls vs Frequency (f)



Typical Ls vs Current (I)



Part No	Inductance L (μH)	f _L (kHz)	Tol. ± (%)	DCR max (Ω)	Rated DC Current (A)		Dimension a max
					I _{max}	I _{sat} typ	
* 09HCP-100M-50	10	100 @ 1 V	20	0.014	5.12	6.70	3.0
* 09HCP-120M-50	12	100 @ 1 V	20	0.018	5.00	5.90	3.0
* 09HCP-150M-50	15	100 @ 1 V	20	0.020	4.60	5.30	3.0
* 09HCP-180M-50	18	100 @ 1 V	20	0.024	4.50	4.80	3.0
* 09HCP-220M-50	22	100 @ 1 V	20	0.031	4.10	4.30	3.0
* 09HCP-270M-50	27	100 @ 1 V	20	0.036	3.50	3.90	3.0
* 09HCP-330M-50	33	100 @ 1 V	20	0.037	3.10	3.60	3.0
* 09HCP-390M-50	39	100 @ 1 V	20	0.044	3.10	3.30	3.0
* 09HCP-470M-50	47	100 @ 1 V	20	0.054	3.10	3.00	3.0
* 09HCP-560M-50	56	100 @ 1 V	20	0.062	2.60	2.80	3.0
* 09HCP-680M-50	68	100 @ 1 V	20	0.072	2.60	2.50	3.0
09HCP-820X-50	82	100 @ 1 V	10,20	0.089	2.30	2.10	3.0
09HCP-101X-50	100	100 @ 1 V	10,20	0.103	2.30	2.00	3.0
09HCP-121X-50	120	100 @ 1 V	10,20	0.128	1.90	1.80	3.0
09HCP-151X-50	150	100 @ 1 V	10,20	0.173	1.60	1.60	2.0
09HCP-181X-50	180	100 @ 1 V	10,20	0.191	1.50	1.50	2.0
09HCP-221X-50	220	100 @ 1 V	10,20	0.226	1.40	1.30	2.0
09HCP-271X-50	270	100 @ 1 V	10,20	0.288	1.30	1.20	2.0
09HCP-331X-50	330	100 @ 1 V	10,20	0.332	1.30	1.10	2.0
09HCP-391X-50	390	100 @ 1 V	10,20	0.442	1.00	1.00	2.0
09HCP-471X-50	470	100 @ 1 V	10,20	0.498	1.00	0.90	2.0
09HCP-561X-50	560	100 @ 1 V	10,20	0.564	1.00	0.80	2.0
09HCP-681X-50	680	100 @ 1 V	10,20	0.644	0.80	0.80	2.0
09HCP-821X-50	820	100 @ 1 V	10,20	0.911	0.70	0.70	2.0
09HCP-102X-50	1000	100 @ 1 V	10,20	1.022	0.60	0.70	2.0
09HCP-122X-50	1200	100 @ 1 V	10,20	1.200	0.60	0.67	2.0

Core Material: Ferrite

Revision date: 29 Aug 2022

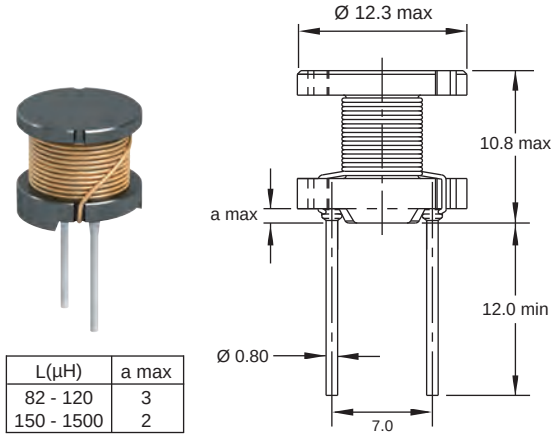
SPQ:	Packaging Form	Loose / Box
	Radial	200 [-50]

Remarks: - Also available with shorter leads.

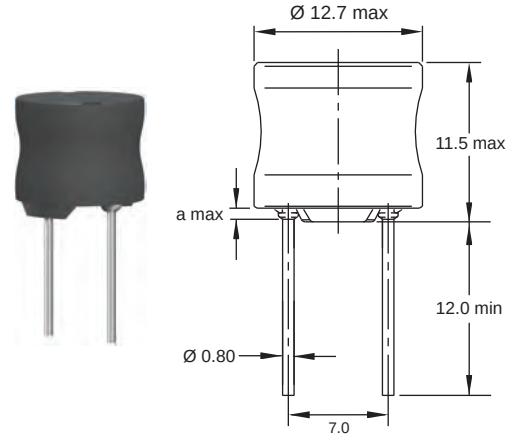
- All 09HCP, 09HCP/T are specified for 150°C except the models with *, which are specified for 125°C.

09 HVP, 09 HVP/T

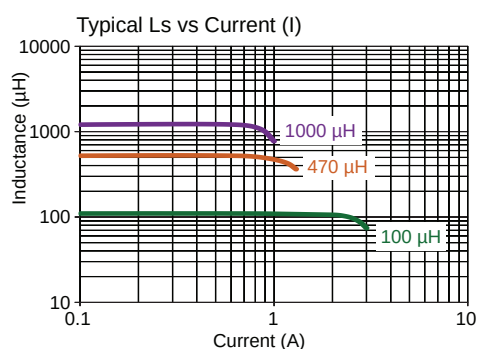
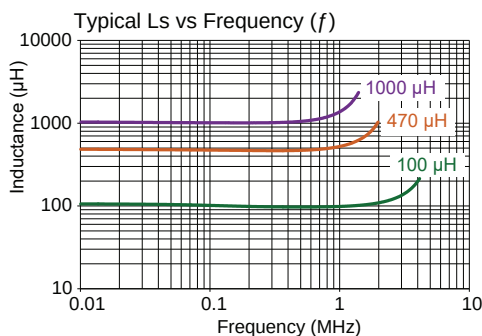
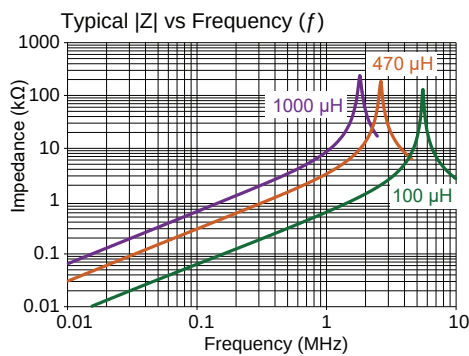
For High Voltages up to 400V DC



09 HVP



09 HVP/T
(With Tube)



Part No	Inductance	f _L	Tol	DCR	Rated DC Current (A)	
	L (µH)	(kHz)	± (%)	max (Ω)	I _{max}	I _{sat typ}
09HVP-820X-50	82	100 @ 1 V	10,20	0.086	2.32	2.20
09HVP-101X-50	100	100 @ 1 V	10,20	0.100	2.40	2.03
09HVP-121X-50	120	100 @ 1 V	10,20	0.135	1.92	1.82
09HVP-151X-50	150	100 @ 1 V	10,20	0.175	1.76	1.66
09HVP-181X-50	180	100 @ 1 V	10,20	0.200	1.68	1.50
09HVP-221X-50	220	100 @ 1 V	10,20	0.225	1.52	1.44
09HVP-271X-50	270	100 @ 1 V	10,20	0.300	1.36	1.27
09HVP-331X-50	330	100 @ 1 V	10,20	0.350	1.28	1.16
09HVP-391X-50	390	100 @ 1 V	10,20	0.450	1.12	1.05
09HVP-471X-50	470	100 @ 1 V	10,20	0.515	1.04	0.98
09HVP-561X-50	560	100 @ 1 V	10,20	0.585	1.00	0.88
09HVP-681X-50	680	100 @ 1 V	10,20	0.680	0.96	0.85
09HVP-821X-50	820	100 @ 1 V	10,20	0.910	0.80	0.76
09HVP-102X-50	1000	100 @ 1 V	10,20	1.060	0.72	0.73
09HVP-152X-50	1500	100 @ 1 V	10,20	1.900	0.50	0.50

Core Material: Ferrite

Revision date: 29 Aug 2022

SPQ:	Packaging Form	5 Trays / Box
	Radial	500 [-50]

14 HVP, 14 HVP/T

For High Voltages up to 600V DC

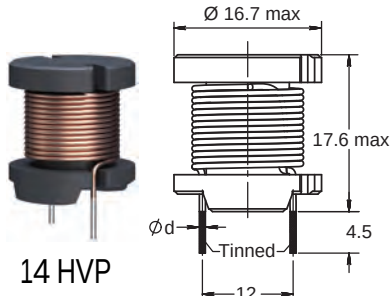


Figure 1

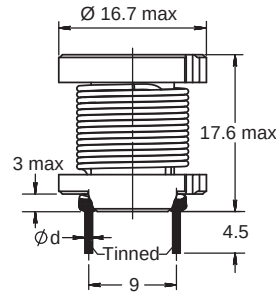


Figure 2



14 HVP/T
(With Tube)

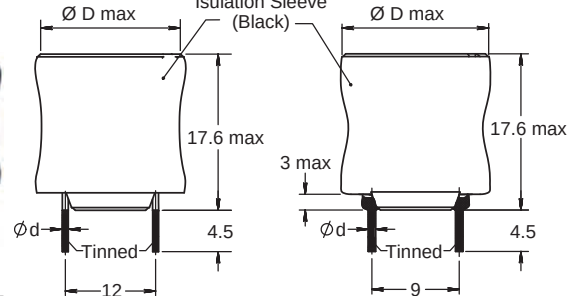
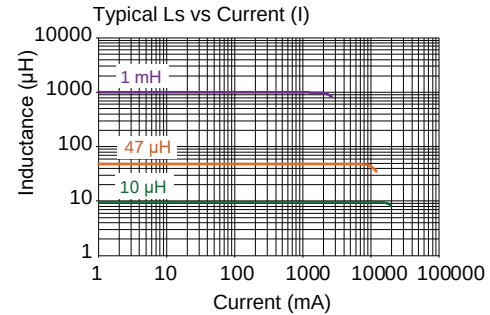
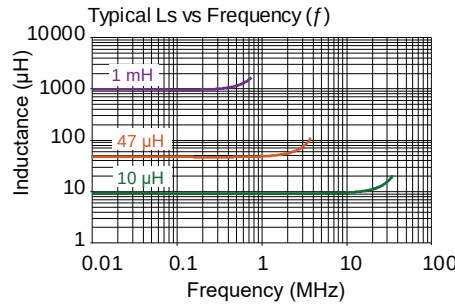
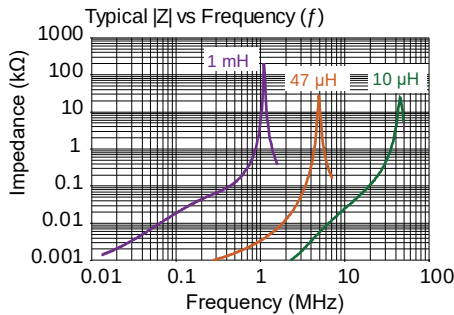


Figure 1

Figure 2



Part No	Inductance	f _L	ToI	SRF	DCR	Rated DC		Dimensions		Figure
	L (μH)	(kHz)	± (%)	typ (MHz)	max (Ω)	I _{sat} typ (A)	I _{max} (A)	Ø d max	14 HVP/T Ø D max	
14HVP-100M-50	10	10 @ 50 mV	20	35	0.050	14.00	8.40	0.68	17.3	1
14HVP-120M-50	12	10 @ 50 mV	20	25	0.055	14.00	7.60	0.68	17.3	1
14HVP-150M-50	15	10 @ 50 mV	20	25	0.060	14.00	6.80	0.68	17.3	1
14HVP-180M-50	18	10 @ 50 mV	20	15	0.070	12.00	5.60	0.68	17.3	1
14HVP-220M-50	22	10 @ 50 mV	20	15	0.075	11.20	5.60	0.68	17.3	1
14HVP-270M-50	27	10 @ 50 mV	20	10	0.085	9.60	5.20	0.68	17.3	1
14HVP-330M-50	33	10 @ 50 mV	20	8.0	0.095	8.80	5.20	0.68	17.3	1
14HVP-390M-50	39	10 @ 50 mV	20	5.0	0.100	7.75	5.00	0.68	17.3	1
14HVP-470M-50	47	10 @ 50 mV	20	4.0	0.120	7.25	5.00	0.63	17.3	1
14HVP-560M-50	56	10 @ 50 mV	20	4.0	0.125	6.80	5.00	0.63	17.3	1
14HVP-680M-50	68	10 @ 50 mV	20	3.5	0.130	6.20	4.80	0.63	17.3	1
14HVP-820M-50	82	10 @ 50 mV	20	3.0	0.165	6.05	4.50	0.63	17.3	1
14HVP-101M-50	100	10 @ 50 mV	20	2.55	0.165	5.60	4.50	0.63	17.3	1
14HVP-121M-50	120	10 @ 50 mV	20	2.20	0.185	4.90	4.30	0.63	17.3	1
14HVP-151M-50	150	10 @ 50 mV	20	2.20	0.200	4.85	3.80	0.63	17.3	1
14HVP-181M-50	180	10 @ 50 mV	20	2.00	0.200	4.30	3.25	0.63	17.3	1
14HVP-221M-50	220	10 @ 50 mV	20	2.00	0.200	4.20	3.00	0.63	17.3	1
14HVP-271M-50	270	10 @ 50 mV	20	1.55	0.260	3.60	3.00	0.58	17.3	1
14HVP-331M-50	330	10 @ 50 mV	20	1.40	0.300	3.30	2.90	0.58	17.3	1
14HVP-391M-50	390	10 @ 50 mV	20	1.30	0.330	3.10	2.60	0.58	17.3	1
14HVP-471M-50	470	10 @ 50 mV	20	1.20	0.360	2.60	2.50	0.80	17.3	2
14HVP-561M-50	560	10 @ 50 mV	20	1.00	0.445	2.40	2.30	0.80	17.3	2
14HVP-681M-50	680	10 @ 50 mV	20	0.95	0.505	2.25	2.00	0.80	17.3	2
14HVP-821M-50	820	10 @ 50 mV	20	0.85	0.555	2.00	1.75	0.80	17.6	2
14HVP-102M-50	1000	10 @ 50 mV	20	0.85	0.640	1.80	1.60	0.80	17.6	2

Core Material: Ferrite

Revision date: 07 Mar 2024

SPQ:	Packaging Form	10 Trays / Box
	Radial	200 [-50]

Remarks: Additional gluing to PCB board is recommended.

Wide Band Chokes and Beads

FASTRON's Wide Band Chokes are ferrite-beads, wound with tinned copper wire. These beads are commonly used in signal filtering and it protects against radio frequency interferences to IC's.

Applications To filter internal and external EMI. Reduction of radiated interference on TV receivers. For all kind of electronic circuits. Suppression of brush-motors and power supplies (SMPS).

Technical Data

Impedance, Z	Measured with HP 4286A RF LCR meter or equivalent at frequency f_L
Operating Temperature	06H, Leaded Beads: -55°C to +85°C SMD Beads: -40°C to +150°C (Including component self-heating)
Recommended Soldering Method	Wave (Leaded) Reflow (SMD)
Moisture Sensitivity Levels (MSL)	MSL Level 1, indicating unlimited floor life at $\leq 30^\circ\text{C}$ / 85% relative humidity
Solderability	Using lead free solder (Sn 99.9) at $260^\circ\text{C} \pm 5^\circ\text{C}$ for 5 ± 0.5 seconds, min 90% solder coverage of metallization Standard: IEC 68-2-20 (Ta)
Resistance to Soldering Heat	Resistant to $260^\circ\text{C} \pm 5^\circ\text{C}$ for 10 ± 1 seconds Standard: IEC 68-2-20 (Tb)
Resistance to Solvent	Resistant to isopropyl alcohol for 5 ± 0.5 minutes at $23^\circ\text{C} \pm 5^\circ\text{C}$ Standard: IEC 68-2-45
Climatic Test	Defined by the following standards: IEC 68-2-1 for Cold test: -55°C for 96 hours IEC 68-2-2 for Dry heat test: +85°C for 96 hours IEC 60068-2-78 for Humidity test: 40°C at RH 95% for 4 days
Thermal Shock Test	Temperature cycle: -55°C to +85°C to -55°C Max/Min temperature duration: 15 minutes Temperature transition duration: 5 minutes Cycles: 25 Standard: MIL-STD-202G
Tensile Strength of Leads (Pull Test)	Components withstand a pulling force of 10N for 10 ± 1 seconds IEC 60068-2-21 (Ua1)
Mechanical Shock	Mil-Std 202 Method 213 Condition C 3 axis, 6 times, total 18 shocks 100 G, 6 ms, half-sine
Vibration	Mil-Std 202 Method 204 20 mins at 5G 10 Hz to 2000 Hz 12 cycles each of 3 orientations

Ordering Code Example: Bead /10-600P-YY

Bead /10 (Model) - 600P (Impedance Value) - YY (Packaging Code) ➔ **Bead /10-600P-02**

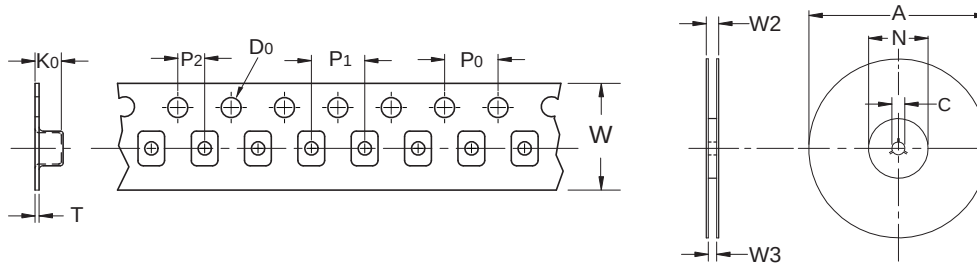
Packaging Code:

SMD	Leaded
01 (7") 04 (13") } Taped / Reel (refer to SMD Taping)	00 } Loose in Box 50 } 01 -- Taped / Reel (refer to Leaded Inductors, Packaging Spec fig.3) 02 -- Taped / Ammopack (refer to Leaded Inductors, Packaging Spec fig.2) 51 -- Taped / Ammopack (refer below Radial Taping)

Wide Band Chokes and Beads

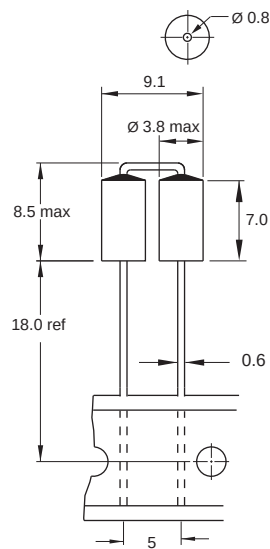
Packaging
Specification
Schematic

SMB Taping
Packaging code: 01



Type	Packaging Code	A	D ₀	N	C	W ₂	W ₃	W	P ₁	P ₀	P ₂	K ₀	T
SMB/001	01	178	1.50	60	13.5	18.8	16	12	8	4	2	3.0	0.29
SMB/002	01	178	1.50	60	13.5	18.8	16	16	8	4	2	3.0	0.27

Radial Taping
Packaging code: 51



BEAD/92

06 H

6-Hole Ferrite Beads



Fig. 1

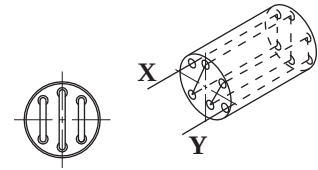
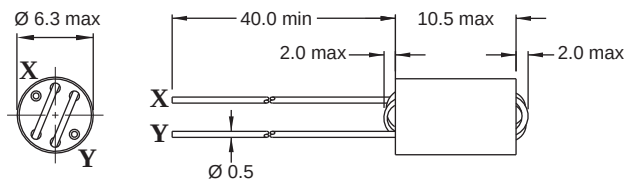


Fig. 2

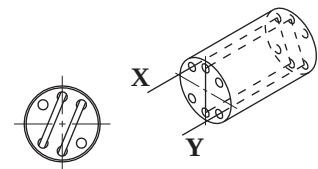
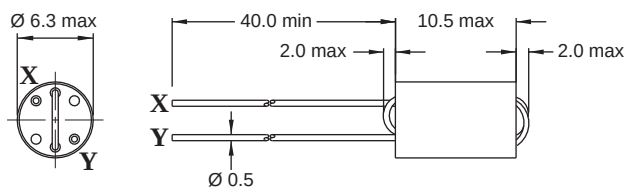


Fig. 3

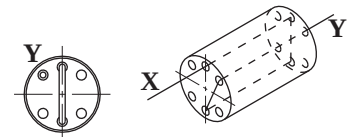
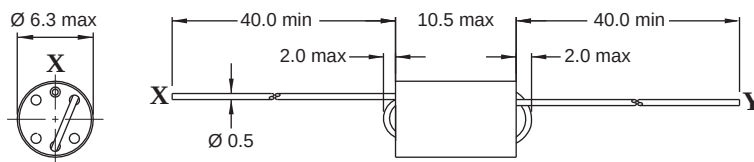


Fig. 4

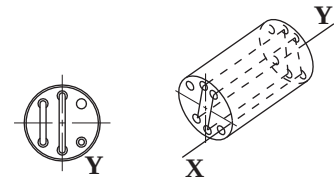
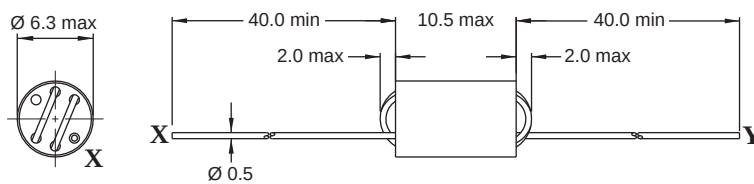
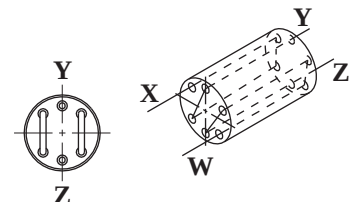
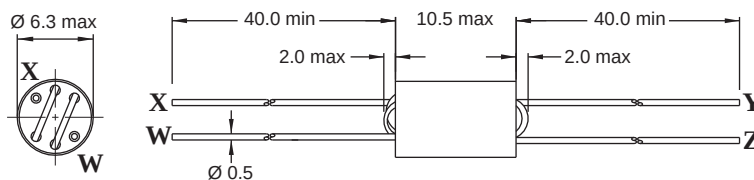


Fig. 5



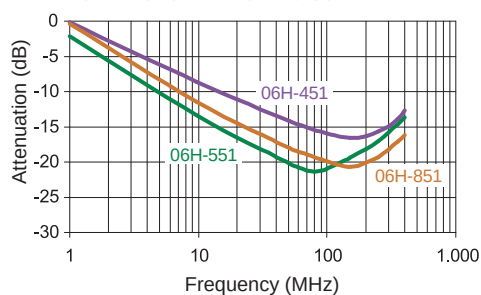
Part No	Impedance		Turns	Rated DC Current (A)	Fig.	SPQ: Loose / Box
	Z min(Ω)	fz (MHz)				
06H-351X-00	300	120	1½	1.0	3	600
06H-451X-00	350	250	1½	1.0	3	600
06H-551X-50	800	50	3	1.0	1	500
06H-651X-50	520	50	2	1.0	2	500
06H-751X-00	600	50	2½	1.0	4	600
06H-851X-00	700	180	2½	1.0	4	600
06H-881X-50	750	180	3	1.0	1	500
06H-901X-00	350	50	2 x 1½	1.0	5	400
06H-951X-00	700	180	2½	3.0	4	600
06H-102X-00	400	110	2 x 1½	1.0	5	400

Core Material: Ferrite

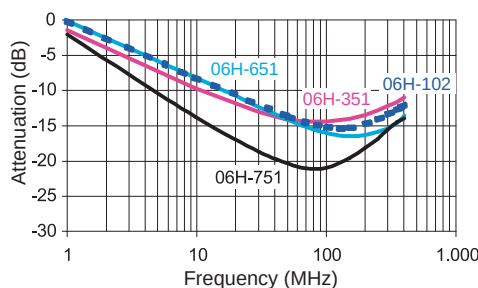
Revision date : 04 Aug 2014

Remark: All models are available with insulation tube (06 H/T)

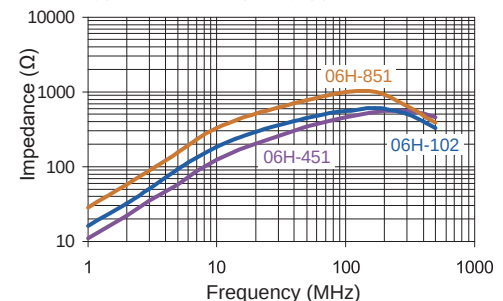
Typical a(dB) vs Frequency (f)



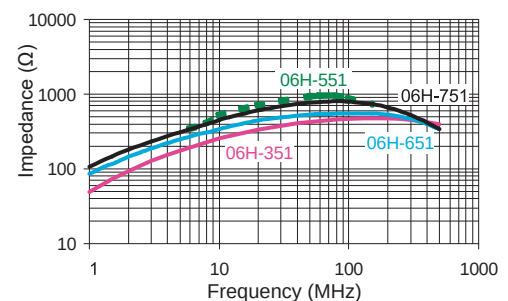
Typical a(dB) vs Frequency (f)



Typical IZI vs Frequency (f)



Typical IZI vs Frequency (f)



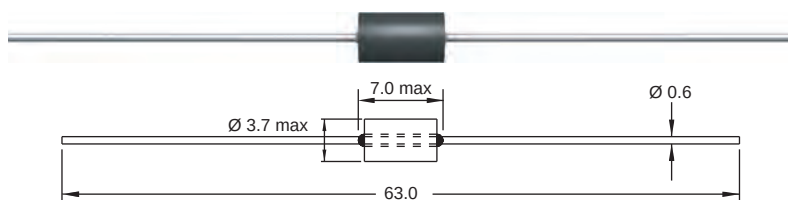
• All dimensions in mm

LEADED BEADS

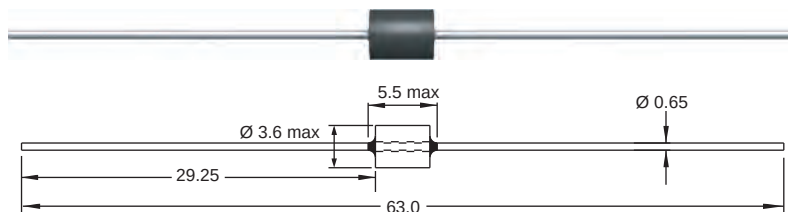
EMI Filters



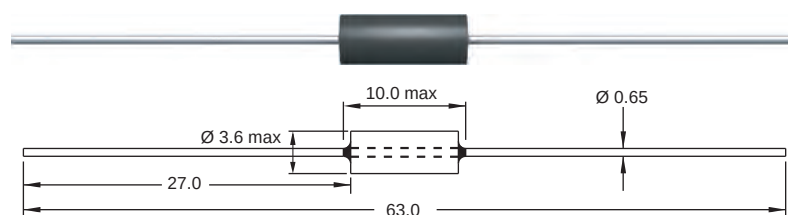
BEAD/4



BEAD/8

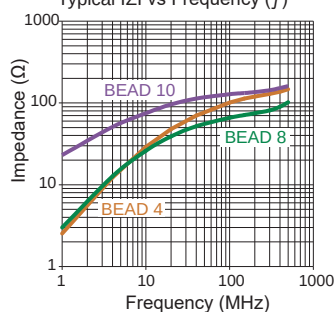


BEAD/10



EMI Filters

Typical IZI vs Frequency (f)



Part No	Impedance Z (Ω)	Rated DC Current typ (A)
Bead /4-900R-02	90 Ω @ 100 MHz	3
Bead /8-210P-02	21 Ω @ 10 MHz	4
Bead /10-600P-02	60 Ω @ 10 MHz	3

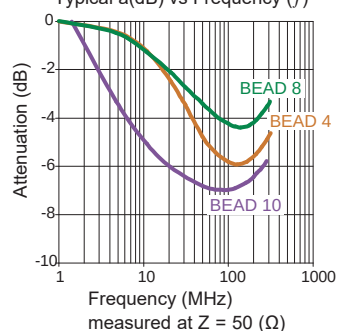
Core Material: Ferrite

Revision date: 04 Aug 2014

SPQ: Taped / Ammo pack

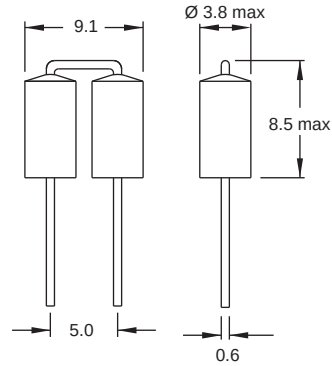
1000 [-02]

Typical a(dB) vs Frequency (f)

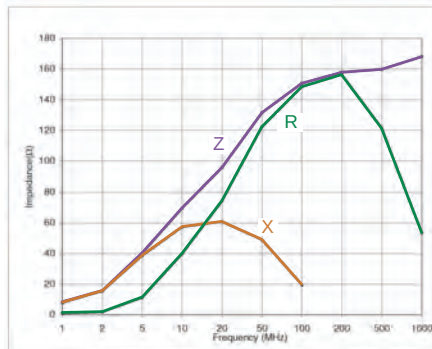


BEAD/92

EMI Filters



Z-f Charecteristics



Part No	Impedance Z (Ω)				DCR max (mΩ)	Rated DC Current (A)
	10 MHz		25 MHz			
	Min	typ	Min	typ		
Bead /92-999X-51	50	80	70	110	20	6

Core Material: Ferrite

Revision date: 09 Jul 2019

SPQ: Taped / Ammo pack 2000 [-51]

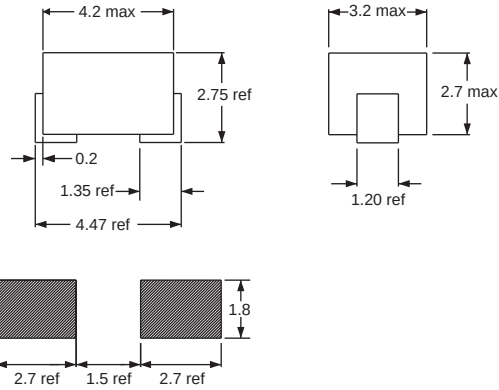
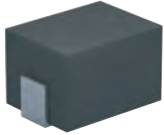
Remark: Either one of the impedance parameter is guaranteed

SMD BEADS

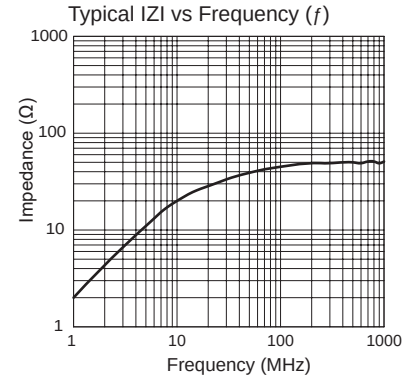
Flat Wire For High Currents



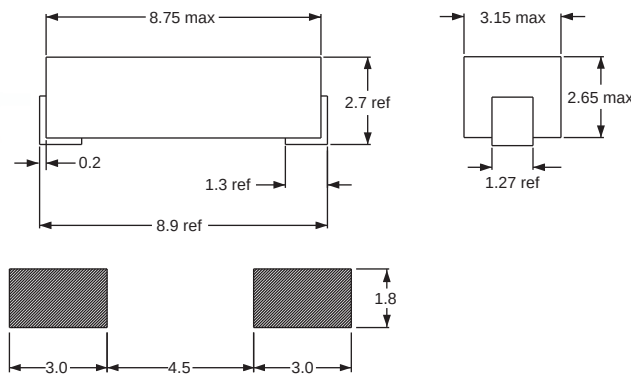
SMB/001



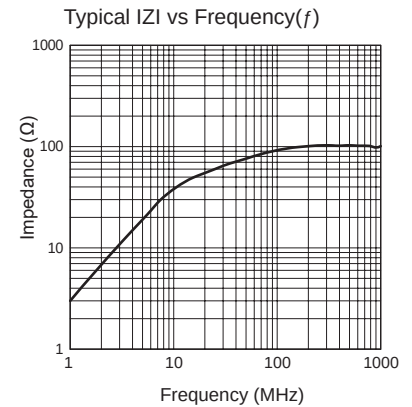
Recommended layout for solder pads



SMB/002



Recommended layout for solder pads



Part No	Impedance Z typ (Ω)		DCR max (Ω)	Rated DC Current max (A)
SMB/001-999X-YY	56 Ω typ @ 100 MHz	63 Ω typ @ 300 MHz	0.010	5
SMB/002-999X-YY	100 Ω typ @ 100 MHz	112 Ω typ @ 300 MHz	0.015	5

Core Material: Ferrite

Revision date: 15 Aug 2022

SPQ:	Taped / Reel
	500 [-01]

SMD Power Inductors (with tube / also shielded)

FASTRON power inductors can withstand a wide temperature range. The inductance values range from 1.0 μ H to 10000 μ H and they are suitable for high rated currents. They have a high reliability and can be assembled by surface mount technology. Their low DC resistance keeps power losses to a minimum. They are also suitable for filtering of supply voltages, coupling, decoupling, automotive electronics, and network switching systems.

Applications These components are widely used in power supplies for VTR, LCD TV, notebooks, PC and DC/DC converters.

Technical Data

L – Value (rated inductance)	Measured with Bode 100 Vector Network Analyzer or equivalent at frequency f_L
SRF (min) – (unshielded only)	Measured with HP 8753ES Network Analyzer or equivalent
DCR (max)	Measured at 25°C
Rated DC Current	Isat max. current based on inductivity drop of 10% (PISG, PISL, PISM, PISMHV, PISP, PISPHV, PISN, PISNHV, PISR, PIST, PISTHV, PISA4119, and PIHV4119) related to the unloaded inductivity. I Δ T max. and IR current based on temperature rise: determined at the point where the temperature rise does not exceed 30°C (PISG) respectively 40°C (PISL, PISM, PISMHV, PISP, PISPHV, PISN, PISNHV, PISR, PIST, PISTHV, PISA4119, PIHV4119, and SPISM) above the ambient temperature of 25°C. I rated current indicates the current when inductivity drop of 25% max related to the unloaded inductivity or when temperature raise $\Delta T=40^\circ\text{C}$ ($T_a=20^\circ\text{C}$) whichever is lower (PISA2408, PISA2416, PISA2812, PISA2816, PISA4716, PISA4720, and PISA4728)
Operating Temperature	Non shielded: -40°C to +150°C (including component self-heating) Shielded and tube: -40°C to +125°C (including component self-heating)
Recommended Soldering Method	Reflow
Moisture Sensitivity Levels (MSL) (Non-shielded)	MSL Level 1, indicating unlimited floor life at $\leq 30^\circ\text{C}$ / 85% relative humidity
Solderability	Using lead-free solder (Sn 99.9) at $260^\circ\text{C} \pm 5^\circ\text{C}$ for 5 ± 0.5 seconds, min 90% solder coverage of metallization Standard: IEC 68-2-20 (T_a)
Resistance to Soldering Heat	Resistant to $260^\circ\text{C} \pm 5^\circ\text{C}$ for 10 ± 1 seconds Standard: IEC 68-2-20 (T_b)
Resistance to Solvent	Resistant to isopropyl alcohol for 5 ± 0.5 minutes at $23^\circ\text{C} \pm 5^\circ\text{C}$ Standard: IEC 68-2-45
Climatic Test	Defined by the following standards: IEC 68-2-1 for cold test: -55°C for 96 hours IEC 68-2-2 for dry heat test: $+125^\circ\text{C}$ for 96 hours IEC 60068-2-78 for humidity test: 40°C at RH 95% for 4 days
Thermal Shock Test (Non-shielded)	Temperature cycle: -40°C to $+125^\circ\text{C}$ to -40°C Max/Min temperature duration: 15 minutes Temperature transition duration: 5 minutes Cycles: 25 Standard: MIL-STD-202G
Adhesion of Soldered Component (Shear Test)	Components withstand a pushing force of 20N for 10 ± 1 seconds Standard: IEC 60068-2-21, method Ue ₃
Mechanical Shock	Mil-Std 202 Method 213 Condition C 3 axis, 6 times, total 18 shocks 100 G, 6 ms, half-sine
Vibration	Mil-Std 202 Method 204 20 mins at 5G 10 Hz to 2000 Hz 12 cycles each of 3 orientations

Ordering Code Example: PISA2408-2R9X-YY

PISA 2408 - 2R9 X - YY
(Model)(Case Size) (Inductance Value)(Tolerance) (Packaging Code) ➔ **PISA2408-2R9N-04**

Case Sizes - 2408, 2416, 2812, 2816, 4119, 4716, 4720, 4728, G, L, M, P, N, R, T

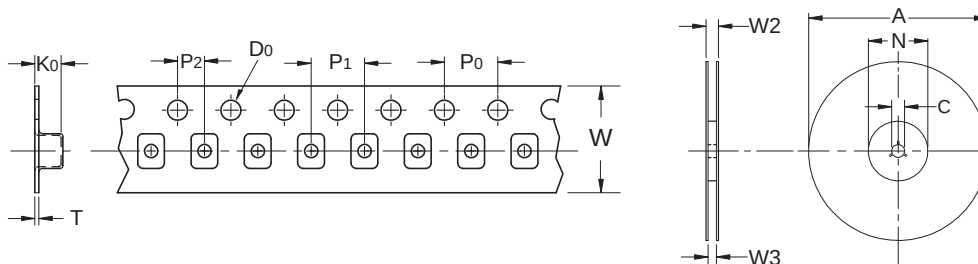
Core Type - Ferrite

Tolerances - K ($\pm 10\%$), M ($\pm 20\%$), N ($\pm 30\%$)

Packaging Code - 01, 04 (Taped / Reel)

SMD Power Inductors (also shielded)

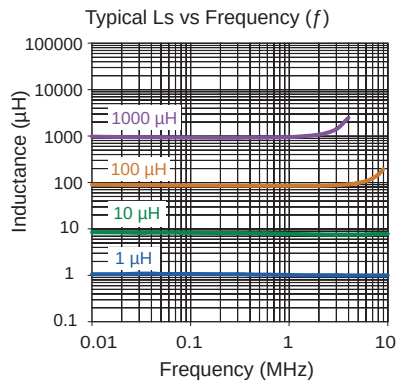
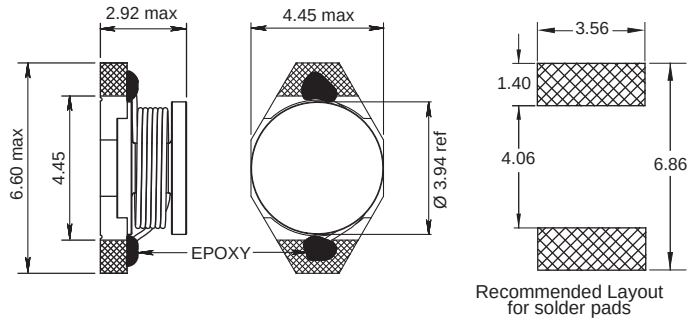
Packaging Specification



Type	A	D0	N	C	W2	W3	W	P1	P0	P2	K0	T
PISG	180	1.55	60	13	18.4	12.4	12	8	4	2	2.9	0.25
PISL	330	1.50	100	13	30.4	24.4	24	12	4	2	3.6	0.30
PISM / SPISM / PISMHV	330	1.50	100	13	30.4	24.4	24	12	4	2	5.4	0.40
PISP / PISPHV	330	1.50	100	13	30.4	24.4	24	16	4	2	8.5	0.50
PISN / PISNHV	330	1.50	100	13	30.4	24.4	24	16	4	2	11.6	0.50
PISR	330	1.50	100	13	38.4	32.4	32	24	4	2	7.6	0.40
PIST / PISTHV	330	1.50	100	13	38.4	32.4	32	24	4	2	12.5	0.50
PISA2408 / PISA2416	330	1.55	100	13	22.4	16.4	16	12	4	2	5.1	0.35
PISA2812	330	1.55	100	13	22.4	16.4	16	12	4	2	3.6	0.35
PISA2816	330	1.55	100	13	22.4	16.4	16	12	4	2	4.6	0.40
PISA4119 / PIHV4119	330	1.50	100	13	30.4	24.4	24	16	4	2	5.7	0.50
PISA4716	330	1.55	100	13	30.4	24.4	24	16	4	2	6.1	0.50
PISA4728 / PISA4720	330	1.55	100	13	30.4	24.4	24	16	4	2	8.1	0.40

PISG

With Leadfree Tinned Terminal
Engineer's Kit: EK-PISG-X



Part No	Inductance	f _L	Tol	SRF	DCR	Rated DC	
	L (µH)	(MHz)	± (%)	typ (MHz)	max (Ω)	I _{sat}	I _{ΔT} = 30°C
PISG-1R0M-01	1.0	0.1	20	130	0.05	2.9	2.9
PISG-1R5M-01	1.5	0.1	20	115	0.06	2.6	2.8
PISG-2R2M-01	2.2	0.1	20	90	0.07	2.3	2.4
PISG-3R3M-01	3.3	0.1	20	70	0.08	2.0	2.0
PISG-4R7M-01	4.7	0.1	20	50	0.09	1.5	1.5
PISG-6R8M-01	6.8	0.1	20	45	0.13	1.2	1.4
PISG-100M-01	10	0.1	20	35	0.16	1.1	1.2
PISG-150M-01	15	0.1	20	30	0.23	0.9	1.1
PISG-220M-01	22	0.1	20	20	0.37	0.7	0.8
PISG-270M-01	27	0.1	20	15	0.51	0.65	0.7
PISG-330M-01	33	0.1	20	15	0.51	0.58	0.6
PISG-470M-01	47	0.1	20	14	0.64	0.50	0.5
PISG-560M-01	56	0.1	20	11	0.86	0.40	0.4
PISG-680M-01	68	0.1	20	11	0.86	0.40	0.4
PISG-101M-01	100	0.1	20	9	1.00	0.40	0.3
PISG-151M-01	150	0.1	20	6	2.00	0.27	0.25
PISG-221M-01	220	0.1	20	5.5	3.11	0.22	0.20
PISG-331M-01	330	0.1	20	5	3.80	0.18	0.16
PISG-471M-01	470	0.1	20	4	5.06	0.16	0.15
PISG-561M-01	560	0.1	20	3	9.00	0.15	0.15
PISG-681M-01	680	0.1	20	3	9.20	0.14	0.12
PISG-102M-01	1000	0.1	20	2	13.8	0.10	0.07

Core Material: Ferrite
Base Material: Ceramic

Revision date: 29 Nov 2023

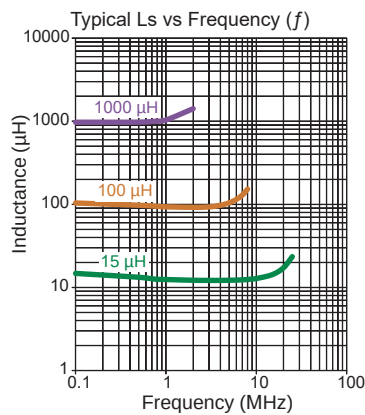
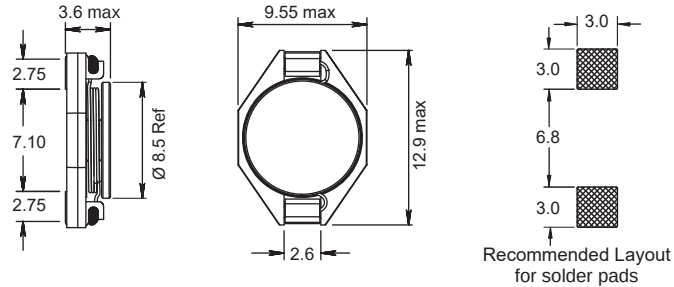
SPQ: Taped / Reel 750 [-01]

Remarks: - I_{sat} & I_{ΔT} - see description in inductors Technical Data.
- Welding secured by epoxy dot.

PISL



Engineer's Kit: EK-PISL-X



Part No	Inductance	f _L	Tol	SRF	DCR	Rated DC Current (A)	
	L (µH)	(MHz)	± (%)	min (MHz)	max (Ω)	I _{sat}	I _{ΔT} = 40°C
PISL-150M-04	15	0.1	20	24	0.07	2.10	1.7
PISL-220M-04	22	0.1	20	19	0.10	1.70	1.4
PISL-330M-04	33	0.1	20	15	0.16	1.40	1.2
PISL-470M-04	47	0.1	20	12	0.22	1.10	0.9
PISL-680M-04	68	0.1	20	10	0.33	0.90	0.8
PISL-101M-04	100	0.1	20	8.0	0.46	0.75	0.7
PISL-151M-04	150	0.1	20	5.5	0.69	0.60	0.55
PISL-221M-04	220	0.1	20	4.9	1.0	0.50	0.45
PISL-331M-04	330	0.1	20	3.5	1.5	0.40	0.35
PISL-471M-04	470	0.1	20	3.0	2.0	0.35	0.30
PISL-681M-04	680	0.1	20	2.3	2.8	0.25	0.25
PISL-102M-04	1000	0.1	20	1.8	3.9	0.20	0.10
PISL-222M-04	2200	0.1	20	1.8	10.0	0.12	0.10
PISL-682M-04	6800	0.1	20	1.5	30.0	0.05	0.045

Core Material: Ferrite

Base Material: Plastic

Revision date: 29 Nov 2023

SPQ: Taped / Reel 1000 [-04]

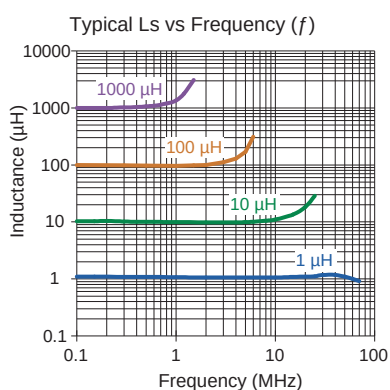
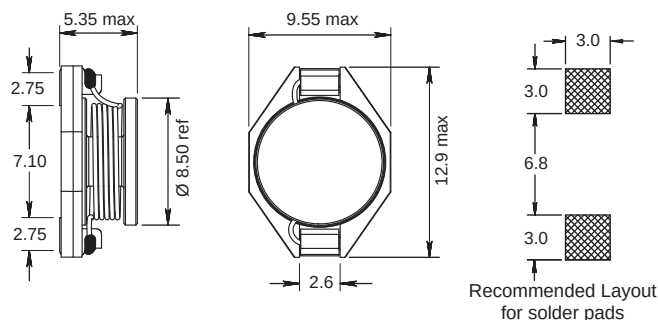
Remarks: - I_{sat} & I_{ΔT} - see description in Inductors Technical Data.

- Terminal clip with lead-free tinned surface for SMT-Reflow soldering.

PISM



Engineer's Kit: EK-PISM-X



Part No	Inductance	f_L	Tol	SRF	DCR	Rated DC Current (A)	
	L (μH)	(MHz)	± (%)	min (MHz)	max (Ω)	I_{sat}	$I_{\Delta T = 40^\circ C}$
PISM-1R0M-04	1.0	0.1	20	115	0.008	10	6.9
PISM-1R5M-04	1.5	0.1	20	90	0.009	9	6.5
PISM-2R2M-04	2.2	0.1	20	80	0.010	8	6.2
PISM-3R3M-04	3.3	0.1	20	58	0.014	7	5.5
PISM-4R7M-04	4.7	0.1	20	49	0.017	6	4.9
PISM-6R8M-04	6.8	0.1	20	39	0.022	5.1	4.4
PISM-100M-04	10	0.1	20	28	0.036	4.2	3.9
PISM-150M-04	15	0.1	20	22	0.050	3.2	3.2
PISM-220M-04	22	0.1	20	17	0.060	2.7	2.7
PISM-330M-04	33	0.1	20	13	0.100	2.1	2.1
PISM-470M-04	47	0.1	20	10	0.140	1.7	1.7
PISM-680M-04	68	0.1	20	8.5	0.190	1.5	1.5
PISM-101M-04	100	0.1	20	7.0	0.280	1.2	1.2
PISM-151M-04	150	0.1	20	5.3	0.420	1.0	1.0
PISM-221M-04	220	0.1	20	4.1	0.600	0.85	0.85
PISM-331M-04	330	0.1	20	3.2	0.900	0.65	0.65
PISM-471M-04	470	0.1	20	2.8	1.250	0.55	0.55
PISM-681M-04	680	0.1	20	2.3	2.00	0.45	0.45
PISM-102M-04	1000	0.1	20	1.7	2.70	0.35	0.35
PISM-222M-04	2200	0.1	20	1.4	7.00	0.25	0.22

Core Material: Ferrite
Base Material: Plastic

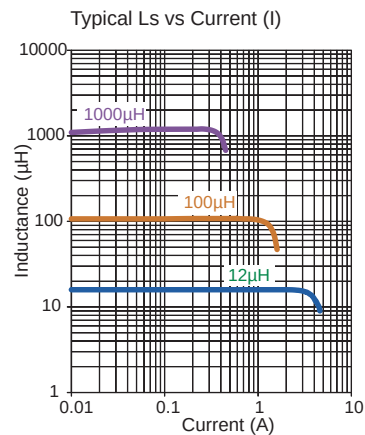
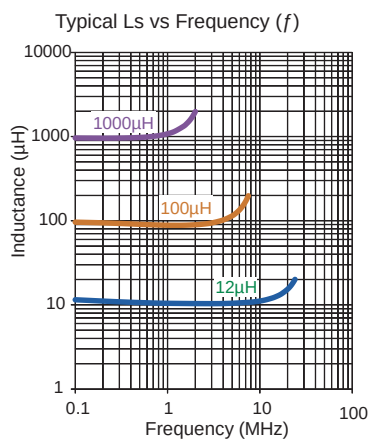
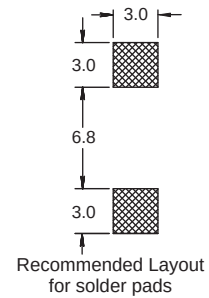
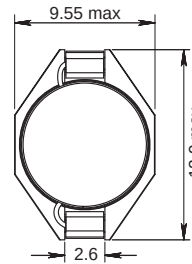
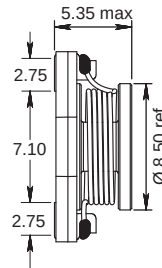
Revision date: 29 Nov 2023

SPQ: Taped / Reel 750 [-04]

Remarks: I_{sat} & $I_{\Delta T}$ - see description in Inductors Technical Data.
Terminal clip with lead-free tinned surface for SMT-Reflow soldering.

PISMHV

For High Voltages up to 400V DC



Part No	Inductance	f_L	Tol	SRF	DCR	Rated DC Current (A)	
	L (µH)	(MHz)	± (%)	min (MHz)	max (Ω)	I_{sat} typ	$I_{\Delta T} = 40^\circ\text{C max}$
PISMHV-120M-04	12	0.1MHz, 1V	20	24	0.040	3.11	3.32
PISMHV-150M-04	15	0.1MHz, 1V	20	22	0.050	2.80	2.90
PISMHV-220M-04	22	0.1MHz, 1V	20	17	0.066	2.30	2.40
PISMHV-330M-04	33	0.1MHz, 1V	20	13	0.097	1.83	1.97
PISMHV-470M-04	47	0.1MHz, 1V	20	11	0.145	1.50	1.64
PISMHV-680M-04	68	0.1MHz, 1V	20	9.2	0.192	1.26	1.45
PISMHV-101M-04	100	0.1MHz, 1V	20	7.5	0.286	1.03	1.19
PISMHV-151M-04	150	0.1MHz, 1V	20	6.0	0.405	0.85	1.10
PISMHV-221M-04	220	0.1MHz, 1V	20	4.6	0.641	0.71	0.85
PISMHV-331M-04	330	0.1MHz, 1V	20	3.9	1.030	0.60	0.68
PISMHV-471M-04	470	0.1MHz, 1V	20	3.2	1.459	0.50	0.56
PISMHV-681M-04	680	0.1MHz, 1V	20	2.7	2.223	0.45	0.48
PISMHV-102M-04	1000	0.1MHz, 1V	20	2.0	3.483	0.35	0.40
PISMHV-222M-04	2200	0.1MHz, 1V	20	1.4	7.967	0.26	0.24

Core Material: Ferrite
Base Material: Plastic

Revision date: 04 Mar 2022

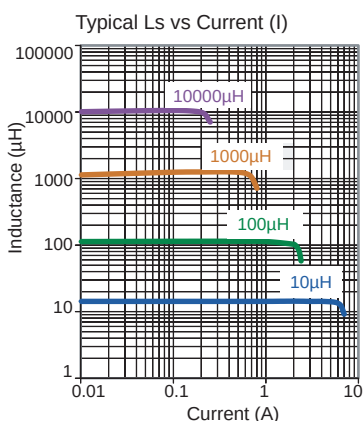
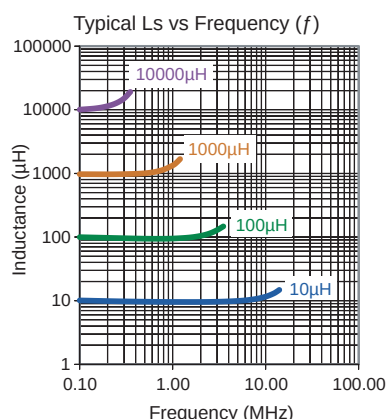
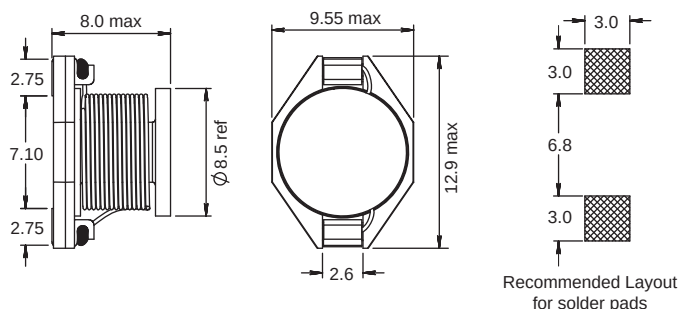
SPQ: Taped / Reel 750 [-04]

Remarks: I_{sat} & $I_{\Delta T}$ - see description in Inductors Technical Data.
Terminal clip with lead-free tinned surface for SMT-Reflow soldering.

PISP



Engineer's Kit: EK-PISP-X



Part No	Inductance	f _L (MHz)	Tol ± (%)	SRF min (MHz)	DCR max (Ω)	Rated DC Current (A)	
	L (μH)					I _{sat}	I _{ΔT} = 40°C
PISP-6R8M-04	6.8	0.1	20	19	0.018	6.72	3.60
PISP-100M-04	10	0.1	20	17	0.026	5.21	3.60
PISP-150M-04	15	0.1	20	13	0.035	4.13	3.12
PISP-220M-04	22	0.1	20	10	0.050	3.54	2.80
PISP-330M-04	33	0.1	20	8.0	0.073	2.86	2.32
PISP-470M-04	47	0.1	20	6.1	0.112	2.34	1.60
PISP-680M-04	68	0.1	20	5.8	0.143	2.00	1.44
PISP-101M-04	100	0.1	20	4.1	0.230	1.64	1.28
PISP-151M-04	150	0.1	20	3.5	0.295	1.36	1.16
PISP-221M-04	220	0.1	20	3.1	0.463	1.12	0.94
PISP-331M-04	330	0.1	20	2.4	0.672	0.91	0.79
PISP-471M-04	470	0.1	20	2.0	0.996	0.80	0.64
PISP-681M-04	680	0.1	20	1.5	1.476	0.67	0.50
PISP-102M-04	1000	0.1	20	1.3	1.980	0.57	0.42
PISP-222M-04	2200	0.1	20	1.0	4.488	0.34	0.30
PISP-103M-04	10000	0.1	20	0.44	21.480	0.17	0.12

Core Material: Ferrite

Base Material: Plastic

SPQ: Taped / Reel 250 [-04]

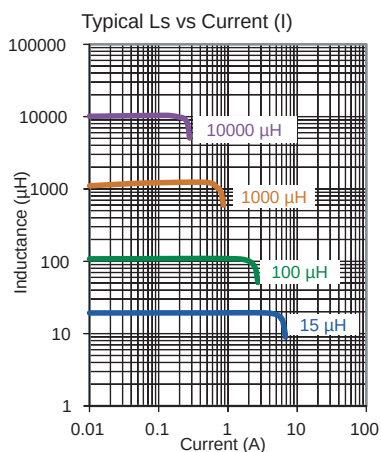
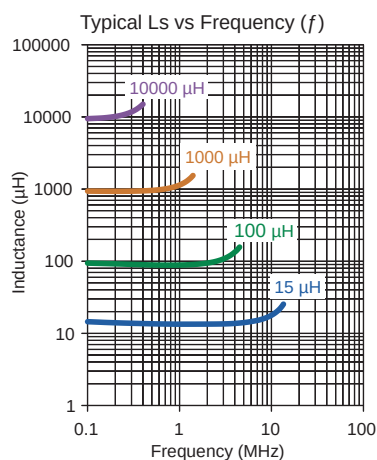
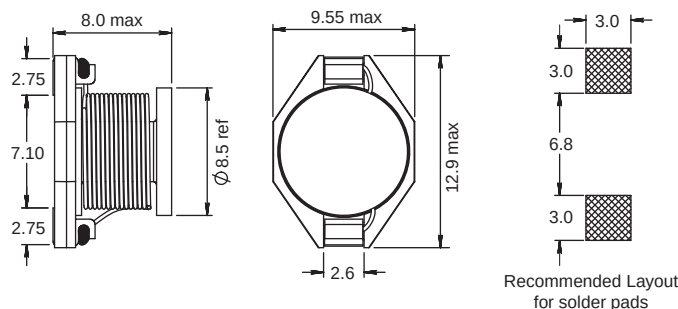
Remarks: I_{sat} & I_{ΔT} - see description in Inductors Technical Data.

Terminal clip with lead-free tinned surface for SMT-Reflow soldering.

Revision date: 23 Apr 2024

PISPHV

For High Voltages up to 400V DC



Part No	Inductance L (μH)	f _L (MHz)	Tol ± (%)	SRF min (MHz)	DCR max (Ω)	Rated DC Current (A)	
						I _{sat} typ	I _{ΔT} = 40°C max
PISPHV-150M-04	15	0.1	20	13.5	0.035	4.20	3.15
PISPHV-220M-04	22	0.1	20	10.5	0.050	3.55	2.80
PISPHV-330M-04	33	0.1	20	8.5	0.073	2.90	2.35
PISPHV-470M-04	47	0.1	20	6.5	0.110	2.50	1.60
PISPHV-680M-04	68	0.1	20	6.0	0.140	2.00	1.45
PISPHV-101M-04	100	0.1	20	4.5	0.220	1.65	1.30
PISPHV-151M-04	150	0.1	20	4.0	0.325	1.40	1.00
PISPHV-221M-04	220	0.1	20	3.5	0.465	1.12	0.94
PISPHV-331M-04	330	0.1	20	2.5	0.670	0.95	0.80
PISPHV-471M-04	470	0.1	20	2.0	0.995	0.80	0.65
PISPHV-681M-04	680	0.1	20	1.7	1.484	0.70	0.55
PISPHV-102M-04	1000	0.1	20	1.5	2.185	0.60	0.45
PISPHV-222M-04	2200	0.1	20	1.0	5.000	0.35	0.30
PISPHV-103M-04	10000	0.1	20	0.4	23.30	0.17	0.12

Core Material: Ferrite

Base Material: Plastic

SPQ: Taped / Reel 250 [-04]

Remarks: I_{sat} & I_{ΔT} - see description in Inductors Technical Data.

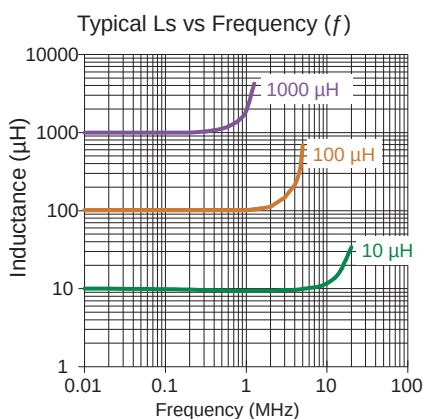
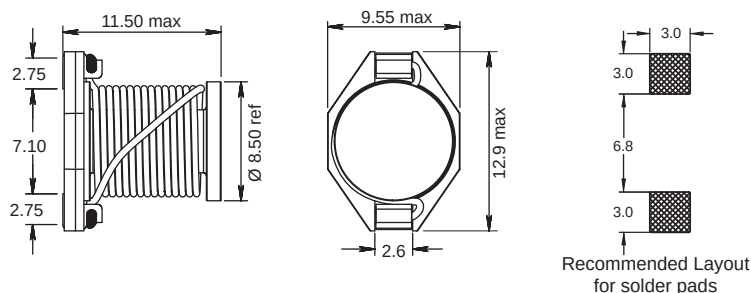
Terminal clip with lead-free tinned surface for SMT-Reflow soldering.

Revision date: 04 Mar 2022

PISN



Engineer's Kit: EK-PISN-X



Part No	Inductance	f_L (MHz)	Tol ± (%)	SRF min (MHz)	DCR max (Ω)	Rated DC Current (A)	
	L (µH)					I_{sat}	$I_{\Delta T = 40^\circ C}$
PISN-100M-04	10	0.1	20	19	0.024	8.3	4.90
PISN-150M-04	15	0.1	20	15	0.035	7.1	4.20
PISN-220M-04	22	0.1	20	12	0.050	5.6	3.50
PISN-330M-04	33	0.1	20	11	0.065	4.3	3.10
PISN-470M-04	47	0.1	20	8	0.095	3.8	2.70
PISN-680M-04	68	0.1	20	6	0.14	3.1	1.90
PISN-101M-04	100	0.1	20	5	0.21	2.6	1.50
PISN-151M-04	150	0.1	20	3.6	0.30	2.1	1.20
PISN-221M-04	220	0.1	20	2.8	0.39	1.7	1.10
PISN-331M-04	330	0.1	20	2.3	0.65	1.35	0.80
PISN-471M-04	470	0.1	20	1.7	0.95	1.15	0.60
PISN-681M-04	680	0.1	20	1.5	1.20	1.05	0.50
PISN-102M-04	1000	0.1	20	1.2	2.0	0.85	0.20
PISN-472M-04	4700	0.1	20	0.45	7.9	0.29	0.19
PISN-103M-04	10000	0.1	20	0.3	19	0.24	0.11

Core Material: Ferrite
Base Material: Plastic

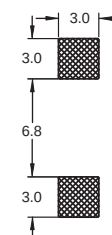
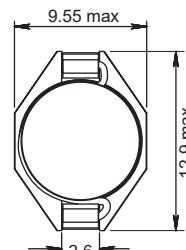
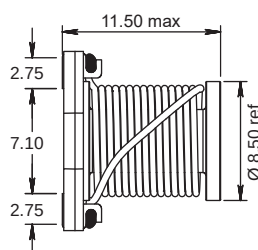
Revision date: 27 Jun 2024

SPQ: Taped / Reel 250 [-04] (with brown craft paper between component layer)

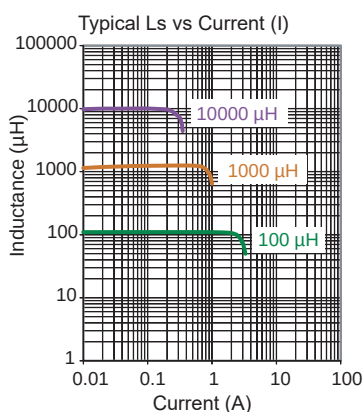
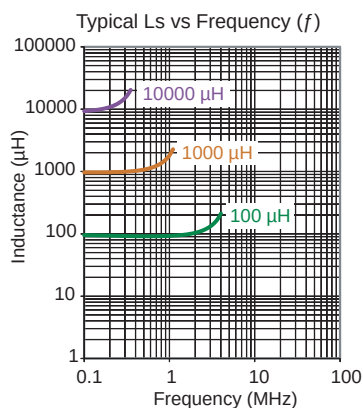
Remarks: I_{sat} & $I_{\Delta T}$ - see description in Inductors Technical Data.
Terminal clip with lead-free tinned surface for SMT-Reflow soldering.

PISNHV

For High Voltages up to 400V DC



Recommended Layout for solder pads



Part No	Inductance	f_L	Tol	SRF	DCR	Rated DC Current (A)	
	L (μH)	(kHz)	± (%)	typ (MHz)	max (Ω)	I_{sat} typ	$I_{ΔT = 40°C}$ max
PISNHV-220M-04	22	100kHz, 1V	20	10.0	0.050	4.82	3.27
PISNHV-330M-04	33	100kHz, 1V	20	8.58	0.070	3.89	2.72
PISNHV-470M-04	47	100kHz, 1V	20	6.52	0.095	3.24	2.31
PISNHV-680M-04	68	100kHz, 1V	20	5.42	0.147	2.68	1.70
PISNHV-101M-04	100	100kHz, 1V	20	4.46	0.190	2.24	1.51
PISNHV-151M-04	150	100kHz, 1V	20	3.19	0.290	1.84	1.19
PISNHV-221M-04	220	100kHz, 1V	20	2.57	0.410	1.52	1.04
PISNHV-331M-04	330	100kHz, 1V	20	2.29	0.640	1.24	0.83
PISNHV-471M-04	470	100kHz, 1V	20	1.97	0.900	1.06	0.72
PISNHV-681M-04	680	100kHz, 1V	20	1.47	1.200	0.90	0.60
PISNHV-102M-04	1000	100kHz, 1V	20	1.28	2.000	0.78	0.48
PISNHV-222M-04	2200	100kHz, 1V	20	0.75	3.850	0.44	0.30
PISNHV-103M-04	10000	100kHz, 1V	20	0.38	18.77	0.24	0.15

Core Material: Ferrite

Base Material: Plastic

Revision date: 27 Jun 2024

SPQ: Taped / Reel 250 [-04] (with brown craft paper between component layer)

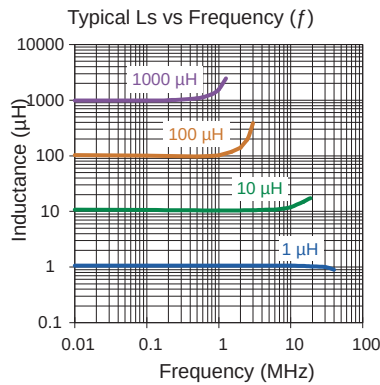
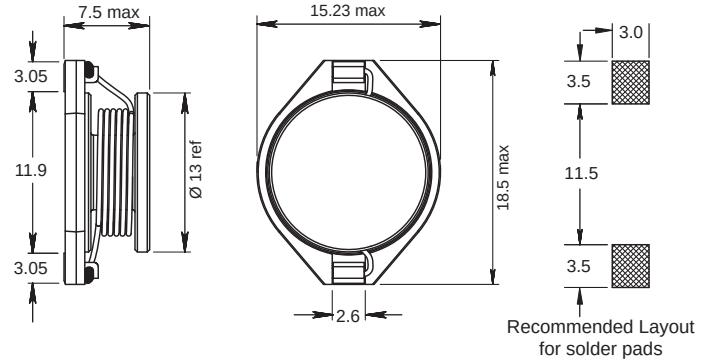
Remarks: I_{sat} & $I_{ΔT}$ - see description in Inductors Technical Data.

Terminal clip with lead-free tinned surface for SMT-Reflow soldering.

PISR



Engineer's Kit: EK-PISR-X



Part No	Inductance	f _L	Tol	SRF	DCR	Rated DC Current (A)	
	L (μH)	(MHz)	± (%)	min (MHz)	max (Ω)	I _{sat}	I _{ΔT} = 40°C
PISR-1R0M-04	1.0	0.1	20	164	0.009	21	8.6
PISR-1R5M-04	1.5	0.1	20	160	0.007	16	7.4
PISR-2R2M-04	2.2	0.1	20	95	0.014	14	7.1
PISR-3R3M-04	3.3	0.1	20	72	0.017	15	6.4
PISR-4R7M-04	4.7	0.1	20	70	0.020	12	5.5
PISR-5R6M-04	5.6	0.1	20	41	0.022	12	5.5
PISR-6R8M-04	6.8	0.1	20	35	0.029	10	4.7
PISR-100M-04	10	0.1	20	24	0.029	10	4.5
PISR-150M-04	15	0.1	20	20	0.035	8	4.1
PISR-220M-04	22	0.1	20	15	0.04	7	3.6
PISR-330M-04	33	0.1	20	10	0.06	5.6	3.1
PISR-470M-04	47	0.1	20	8	0.07	4.6	2.7
PISR-680M-04	68	0.1	20	6.5	0.10	3.6	2.3
PISR-820M-04	82	0.1	20	6.0	0.15	3.1	1.9
PISR-101M-04	100	0.1	20	5.2	0.17	3.1	1.9
PISR-151M-04	150	0.1	20	4.2	0.22	2.6	1.6
PISR-221M-04	220	0.1	20	3.3	0.34	2.2	1.3
PISR-271M-04	270	0.1	20	3.0	0.52	1.9	1.1
PISR-331M-04	330	0.1	20	2.7	0.52	1.9	1.1
PISR-471M-04	470	0.1	20	2.1	0.76	1.4	0.85
PISR-681M-04	680	0.1	20	1.8	1.10	1.2	0.74
PISR-102M-04	1000	0.1	20	1.3	1.70	1.0	0.57
PISR-472M-04	4700	0.1	20	0.76	7.20	0.35	0.22
PISR-103M-04	10000	0.1	20	0.55	18.5	0.25	0.20

Core Material: Ferrite

Base Material: Plastic

Revision date: 29 Nov 2023

SPQ: Taped / Reel 250 [-04]

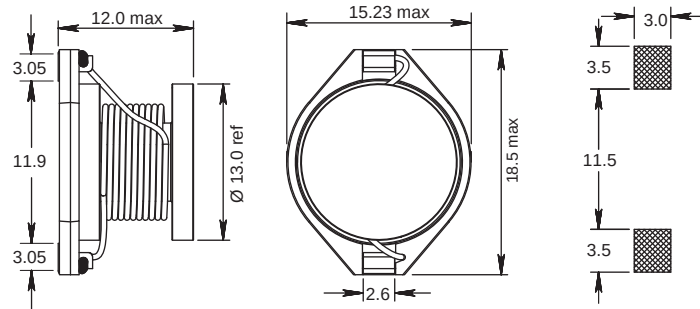
Remarks: I_{sat} & I_{ΔT} - see description in Inductors Technical Data.

Terminal clip with lead-free tinned surface for SMT-Reflow soldering.

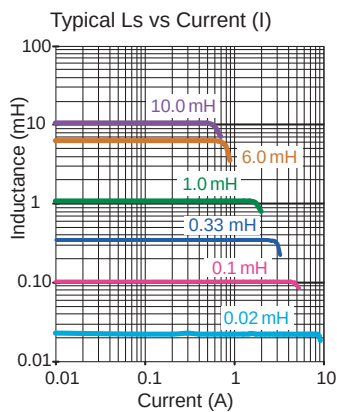
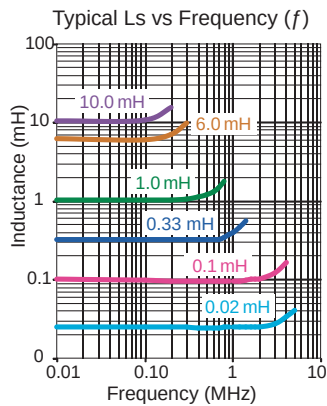
PIST



Engineer's Kit: EK-PIST-X



Recommended Layout for solder pads



Part No	Inductance	f _L (MHz)	Tol ± (%)	SRF min (kHz)	DCR max (Ω)	Rated DC Current (A)	
	L (μH)					I _{sat} typ	ΔT = 40°C
PIST-100X-04	10	0.1MHz, 0.1 V	10,20	17000	0.06	11.0	4.50
PIST-150X-04	15	0.1MHz, 0.1 V	10,20	12000	0.10	9.00	3.60
PIST-220X-04	22	0.1MHz, 0.1 V	10,20	9000	0.10	7.00	2.80
PIST-330X-04	33	0.1MHz, 0.1 V	10,20	9000	0.12	6.70	2.50
PIST-470X-04	47	0.1MHz, 0.1 V	10,20	5700	0.13	6.00	2.20
PIST-680X-04	68	0.1MHz, 0.1 V	10,20	5000	0.15	5.00	2.00
PIST-820X-04	82	0.1MHz, 0.1 V	10,20	4200	0.15	4.80	1.90
PIST-101X-04	100	0.1MHz, 0.1 V	10,20	3900	0.20	4.10	1.60
PIST-151X-04	150	0.1MHz, 0.1 V	10,20	3500	0.22	3.60	1.60
PIST-221X-04	220	0.1MHz, 0.1 V	10,20	2600	0.34	3.00	1.20
PIST-271X-04	270	0.1MHz, 0.1 V	10,20	2500	0.40	2.60	1.10
PIST-301X-04	300	0.1MHz, 0.1 V	10,20	2000	0.39	2.10	1.20
PIST-331X-04	330	0.1MHz, 0.1 V	10,20	2000	0.70	2.00	0.92
PIST-471X-04	470	0.1MHz, 0.1 V	10,20	2000	0.95	1.64	0.87
PIST-681X-04	680	0.1MHz, 0.1 V	10,20	1650	1.15	1.40	0.70
PIST-102X-04	1000	0.1MHz, 0.1 V	10,20	1100	1.50	1.15	0.65
PIST-152X-04	1500	0.1MHz, 0.1 V	10,20	700	2.00	1.00	0.50
PIST-302X-04	3000	0.1MHz, 0.1 V	10,20	630	3.50	0.90	0.50
PIST-472X-04	4700	0.1MHz, 0.1 V	10,20	500	4.80	0.78	0.40
PIST-602X-04	6000	0.1MHz, 0.1 V	10,20	470	6.00	0.70	0.30
PIST-802X-04	8000	0.1MHz, 0.1 V	10,20	410	8.00	0.60	0.26
PIST-103X-04	10000	0.1MHz, 0.1 V	10,20	300	10.5	0.39	0.24

Core Material: Ferrite

Base Material: Plastic

SPQ: Taped / Reel 200 [-04]

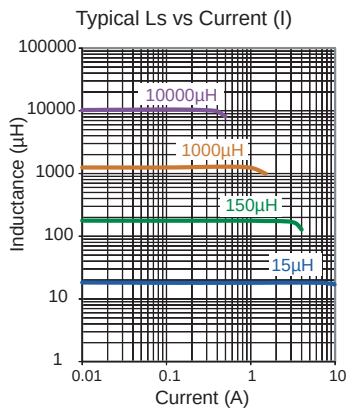
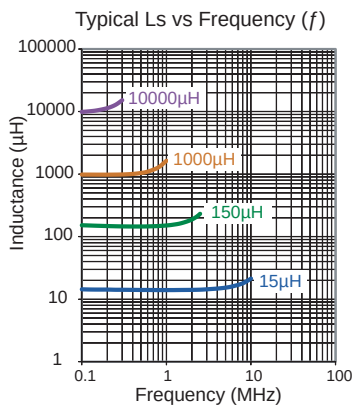
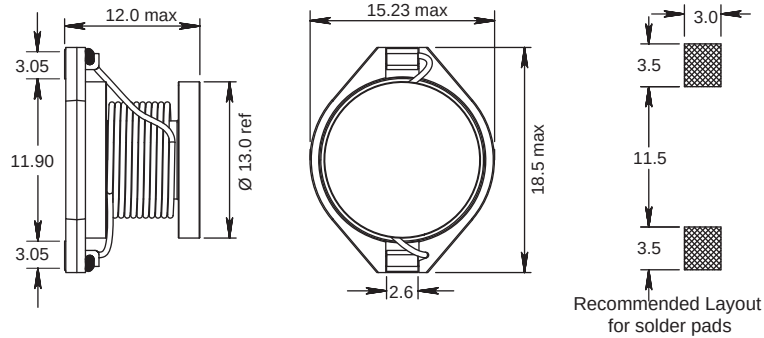
Remarks: I_{sat} & ΔT - see description in Inductors Technical Data.

Terminal clip with lead-free tinned surface for SMT-Reflow soldering.

Revision date: 29 Nov 2023

PISTHV

For High Voltages up to 400V DC



Part No	Inductance	f_L (kHz)	Tol $\pm$ (%)	SRF min (MHz)	DCR max (Ω)	Rated DC Current (A)	
	L (µH)					I_{sat}	$I_{\Delta T = 40^\circ C}$
PISTHV-150M-04	15	100kHz, 0.1V	20	11.35	0.034	7.85	4.90
PISTHV-820M-04	82	100kHz, 0.1V	20	4.09	0.104	3.95	2.50
PISTHV-151M-04	150	100kHz, 0.1V	20	4.00	0.200	2.87	1.90
PISTHV-301M-04	300	100kHz, 0.1V	20	2.00	0.390	2.10	1.20
PISTHV-331M-04	330	100kHz, 0.1V	20	2.00	0.450	1.85	1.20
PISTHV-471M-04	470	100kHz, 0.1V	20	1.65	0.650	1.40	0.90
PISTHV-681M-04	680	100kHz, 0.1V	20	1.35	0.770	1.40	0.80
PISTHV-102M-04	1000	100kHz, 0.1V	20	1.20	1.200	1.17	0.65
PISTHV-472M-04	4700	100kHz, 0.1V	20	0.55	5.200	0.65	0.30
PISTHV-602M-04	6000	100kHz, 0.1V	20	0.48	6.700	0.60	0.26
PISTHV-802M-04	8000	100kHz, 0.1V	20	0.41	8.640	0.56	0.24
PISTHV-103M-04	10000	100kHz, 0.1V	20	0.40	10.50	0.39	0.21

Core Material: Ferrite

Base Material: Plastic

SPQ: Taped / Reel 200 [-04]

Remarks: I_{sat} & $I_{\Delta T}$ - see description in Inductors Technical Data.

Terminal clip with lead-free tinned surface for SMT-Reflow soldering.

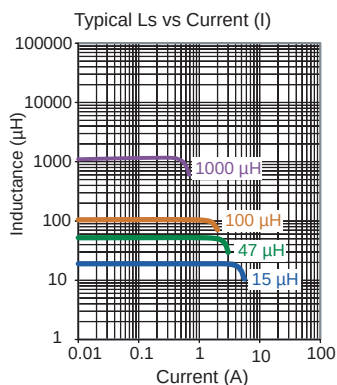
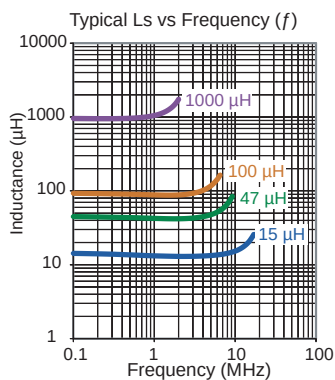
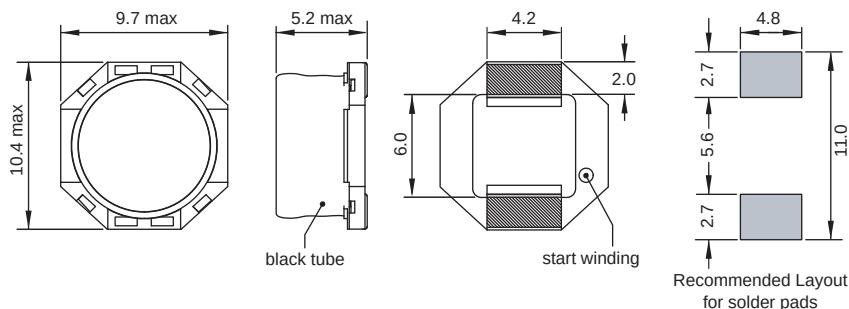
Revision date: 04 Mar 2022

PIHV 4119

with tube

For High Voltages up to 400V DC

Engineer's Kit: EK-PIHV4119-X



Part No	Inductance	f _L (kHz)	Tol ± (%)	SRF typ (MHz)	DCR max (Ω)	Rated DC Current (A)	
	L (μH)					I _{sat} typ	I _R max
PIHV4119-150M-04	15	100 @ 0.1 V	20	17.3	0.085	3.10	3.00
PIHV4119-220M-04	22	100 @ 0.1 V	20	13.7	0.120	2.60	2.60
PIHV4119-330M-04	33	100 @ 0.1 V	20	11.7	0.180	2.10	2.20
PIHV4119-470M-04	47	100 @ 0.1 V	20	10.0	0.240	1.85	1.90
PIHV4119-680M-04	68	100 @ 0.1 V	20	8.7	0.330	1.50	1.55
PIHV4119-101M-04	100	100 @ 0.1 V	20	7.1	0.450	1.30	1.45
PIHV4119-151M-04	150	100 @ 0.1 V	20	5.4	0.650	1.05	0.90
PIHV4119-221M-04	220	100 @ 0.1 V	20	4.5	1.000	0.85	0.71
PIHV4119-331M-04	330	100 @ 0.1 V	20	3.8	1.500	0.70	0.61
PIHV4119-471M-04	470	100 @ 0.1 V	20	3.1	2.000	0.60	0.50
PIHV4119-681M-04	680	100 @ 0.1 V	20	2.6	3.000	0.50	0.45
PIHV4119-102M-04	1000	100 @ 0.1 V	20	2.2	4.450	0.40	0.34
PIHV4119-222M-04	2200	100 @ 0.1 V	20	1.4	9.850	0.25	0.17

Core Material: Ferrite

Base Material: Plastic

Revision date: 29 Nov 2023

SPQ: Taped / Reel 600 [-04]

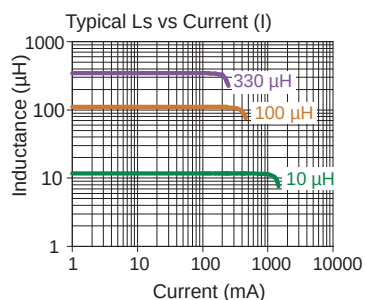
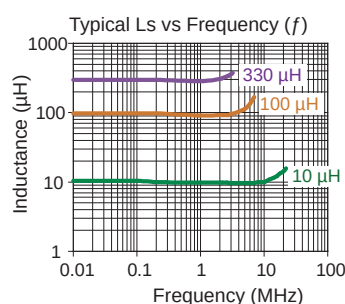
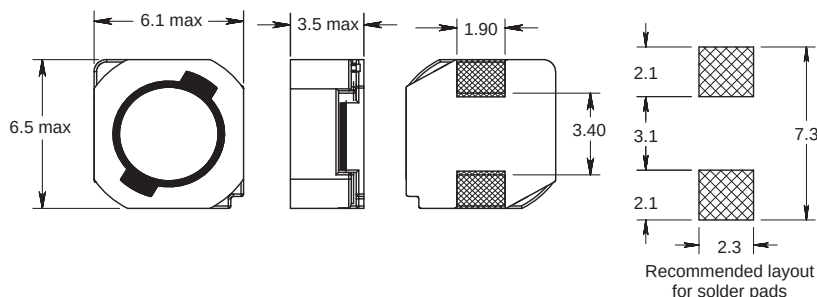
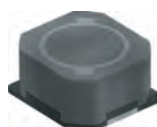
Remarks: - I_{sat} & I_R - see description in Inductors Technical Data.

PISA 2408



Magnetically Shielded

Engineer's Kit: EK-PISA2408-X



Part No	Inductance L (μH)	f _L (kHz)	Tol ± (%)	DCR max (Ω)	Rated DC Current I(A)
PISA2408-2R9N-04	2.9	1	30	0.068	1.94
PISA2408-3R3N-04	3.3	1	30	0.068	1.80
PISA2408-5R5N-04	5.5	1	30	0.096	1.40
PISA2408-6R3N-04	6.3	1	30	0.10	1.30
PISA2408-6R8M-04	6.8	1	20	0.10	1.20
PISA2408-7R1N-04	7.1	1	30	0.11	1.22
PISA2408-8R0N-04	8.0	1	30	0.12	1.15
PISA2408-100M-04	10	1	20	0.15	1.10
PISA2408-120M-04	12	1	20	0.20	1.00
PISA2408-150M-04	15	1	20	0.23	0.90
PISA2408-180M-04	18	1	20	0.27	0.88
PISA2408-220M-04	22	1	20	0.34	0.74
PISA2408-270M-04	27	1	20	0.38	0.66
PISA2408-470M-04	47	1	20	0.69	0.50
PISA2408-560M-04	56	1	20	0.78	0.46
PISA2408-680M-04	68	1	20	1.07	0.42
PISA2408-820M-04	82	1	20	1.21	0.38
PISA2408-101M-04	100	1	20	1.39	0.34
PISA2408-121M-04	120	1	20	1.90	0.31
PISA2408-151M-04	150	1	20	2.18	0.28
PISA2408-221M-04	220	1	20	3.12	0.23
PISA2408-271M-04	270	1	20	4.38	0.22
PISA2408-331M-04	330	1	20	4.94	0.19

Core Material: Ferrite

Base Material: Plastic

Revision date: 29 Nov 2023

SPQ: Taped / Reel 1000 [-04]

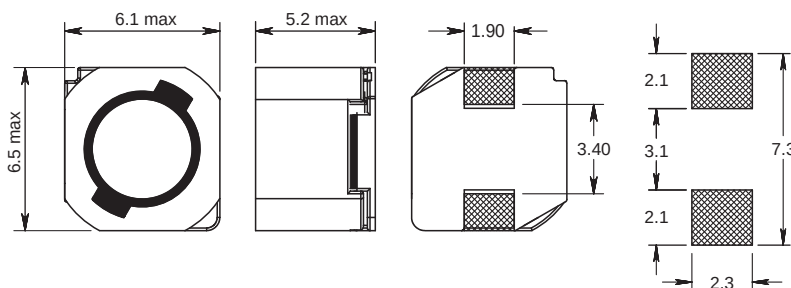
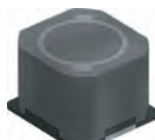
Remarks: - Additional gluing to PCB board is recommended.
- I - see description in Inductors Technical Data.

PISA 2416

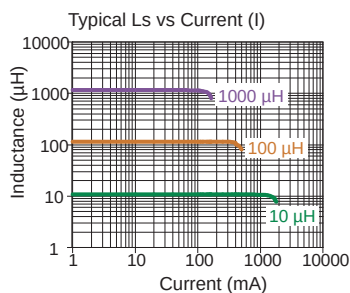
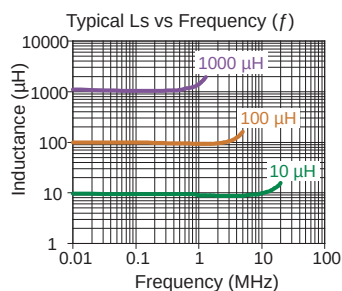


Magnetically Shielded

Engineer's Kit: EK-PISA2416-X



Recommended layout
for solder pads



Part No	Inductance L (μH)	f _L (kHz)	Tol ± (%)	DCR max (Ω)	Rated DC Current I (A)
PISA2416-4R7M-04	4.7	1	20	0.09	2.40
PISA2416-100M-04	10	1	20	0.12	1.35
PISA2416-120M-04	12	1	20	0.13	1.20
PISA2416-150M-04	15	1	20	0.18	1.10
PISA2416-180M-04	18	1	20	0.24	1.00
PISA2416-220M-04	22	1	20	0.27	0.91
PISA2416-270M-04	27	1	20	0.3	0.82
PISA2416-330M-04	33	1	20	0.33	0.75
PISA2416-390M-04	39	1	20	0.37	0.69
PISA2416-470M-04	47	1	20	0.52	0.62
PISA2416-560M-04	56	1	20	0.56	0.58
PISA2416-680M-04	68	1	20	0.63	0.52
PISA2416-820M-04	82	1	20	0.71	0.47
PISA2416-101M-04	100	1	20	1.03	0.43
PISA2416-121M-04	120	1	20	1.15	0.39
PISA2416-151M-04	150	1	20	1.68	0.35
PISA2416-181M-04	180	1	20	1.87	0.32
PISA2416-221M-04	220	1	20	2.08	0.29
PISA2416-271M-04	270	1	20	2.37	0.26
PISA2416-331M-04	330	1	20	2.67	0.23
PISA2416-391M-04	390	1	20	2.94	0.22
PISA2416-471M-04	470	1	20	3.93	0.2
PISA2416-561M-04	560	1	20	5.43	0.18
PISA2416-681M-04	680	1	20	7.32	0.17
PISA2416-821M-04	820	1	20	8.24	0.15
PISA2416-102M-04	1000	1	20	9.26	0.14

Core Material: Ferrite

Revision date: 29 Nov 2023

Base Material: Plastic

SPQ: Taped / Reel 1000 [-04]

Remarks:

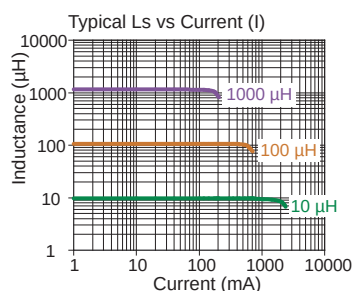
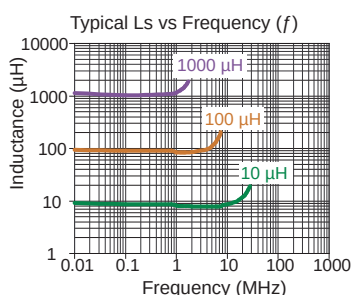
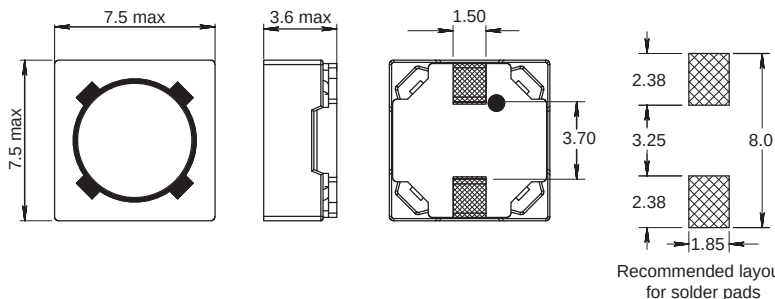
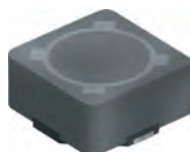
- Additional gluing to PCB board is recommended.
- I - see description in Inductors Technical Data.

PISA 2812



Magnetically Shielded

Engineer's Kit: EK-PISA2812-X



Part No	Inductance L (μH)	f _L (kHz)	Tol ± (%)	DCR max (mΩ)	Rated DC Current I (A)
PISA2812-1R0M-04	1.0	1	20	50	3.50
PISA2812-3R3M-04	3.3	1	20	70	3.00
PISA2812-5R6M-04	5.6	1	20	82	2.57
PISA2812-100M-04	10	1	20	80	1.68
PISA2812-120M-04	12	1	20	98	1.52
PISA2812-150M-04	15	1	20	130	1.33
PISA2812-180M-04	18	1	20	140	1.20
PISA2812-220M-04	22	1	20	190	1.07
PISA2812-270M-04	27	1	20	210	0.96
PISA2812-330M-04	33	1	20	240	0.91
PISA2812-390M-04	39	1	20	320	0.77
PISA2812-470M-04	47	1	20	360	0.76
PISA2812-560M-04	56	1	20	470	0.68
PISA2812-680M-04	68	1	20	520	0.61
PISA2812-820M-04	82	1	20	690	0.57
PISA2812-101M-04	100	1	20	790	0.50
PISA2812-121M-04	120	1	20	890	0.49
PISA2812-151M-04	150	1	20	1270	0.43
PISA2812-181M-04	180	1	20	1450	0.39
PISA2812-221M-04	220	1	20	1650	0.35
PISA2812-271M-04	270	1	20	2310	0.32
PISA2812-331M-04	330	1	20	2620	0.28
PISA2812-391M-04	390	1	20	2940	0.26
PISA2812-471M-04	470	1	20	4180	0.24
PISA2812-561M-04	560	1	20	4670	0.22
PISA2812-681M-04	680	1	20	5730	0.19
PISA2812-821M-04	820	1	20	6540	0.18
PISA2812-102M-04	1000	1	20	9440	0.16

Core Material: Ferrite

Base Material: Plastic

Revision date: 29 Nov 2023

SPQ: Taped / Reel 1200 [-04]

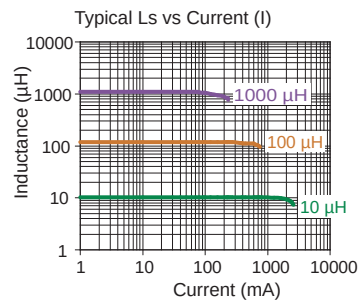
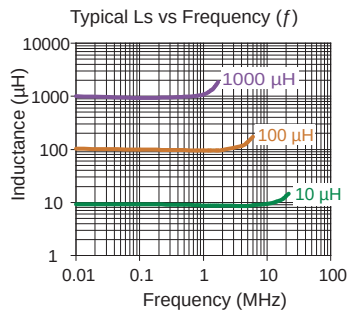
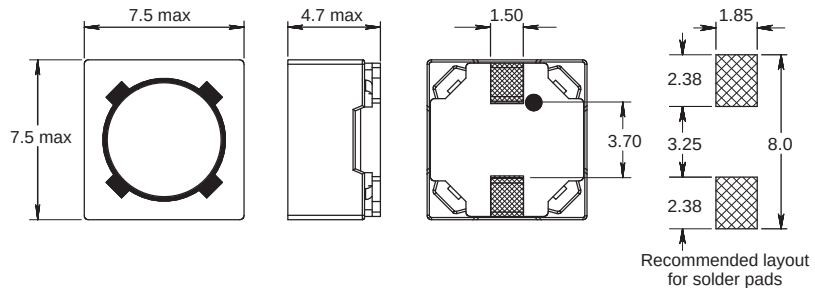
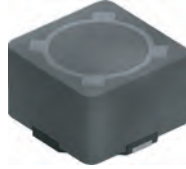
Remarks: - Additional gluing to PCB board is recommended.
- I - see description in Inductors Technical Data.

PISA 2816



Magnetically Shielded

Engineer's Kit: EK-PISA2816-X



Part No	Inductance L (μH)	f _L (kHz)	Tol ± (%)	DCR max (mΩ)	Rated DC Current I (A)
PISA2816-2R2M-04	2.2	1	20	45	2.20
PISA2816-3R3M-04	3.3	1	20	45	2.00
PISA2816-4R7M-04	4.7	1	20	45	2.00
PISA2816-100M-04	10	1	20	52	1.84
PISA2816-120M-04	12	1	20	58	1.71
PISA2816-150M-04	15	1	20	81	1.47
PISA2816-180M-04	18	1	20	91	1.31
PISA2816-220M-04	22	1	20	110	1.23
PISA2816-270M-04	27	1	20	150	1.12
PISA2816-330M-04	33	1	20	170	0.96
PISA2816-390M-04	39	1	20	230	0.91
PISA2816-470M-04	47	1	20	260	0.88
PISA2816-560M-04	56	1	20	350	0.75
PISA2816-680M-04	68	1	20	380	0.69
PISA2816-820M-04	82	1	20	430	0.61
PISA2816-101M-04	100	1	20	610	0.60
PISA2816-121M-04	120	1	20	660	0.52
PISA2816-151M-04	150	1	20	880	0.46
PISA2816-181M-04	180	1	20	980	0.42
PISA2816-221M-04	220	1	20	1170	0.36
PISA2816-271M-04	270	1	20	1640	0.34
PISA2816-331M-04	330	1	20	1860	0.32
PISA2816-391M-04	390	1	20	2850	0.29
PISA2816-471M-04	470	1	20	3010	0.26
PISA2816-561M-04	560	1	20	3620	0.23
PISA2816-681M-04	680	1	20	4630	0.22
PISA2816-821M-04	820	1	20	5200	0.20
PISA2816-102M-04	1000	1	20	6000	0.18

Core Material: Ferrite
Base Material: Plastic

Revision date: 29 Nov 2023

SPQ: Taped / Reel 1000 [-04]

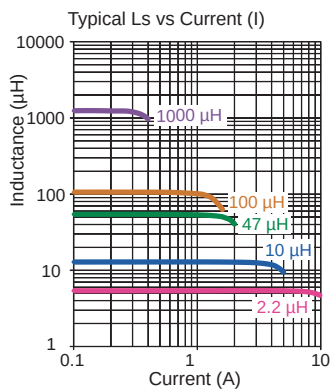
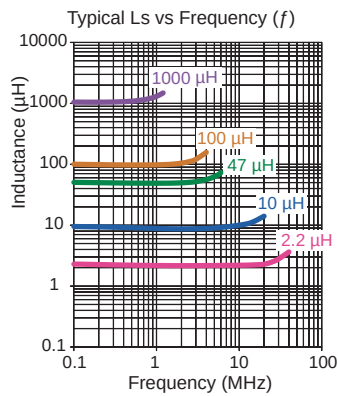
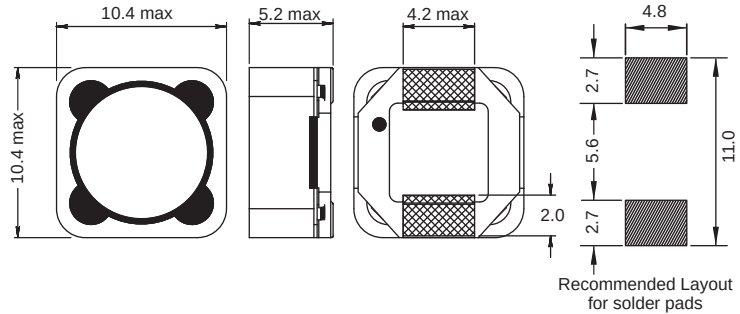
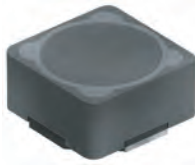
Remarks: - Additional gluing to PCB board is recommended.
- I - see description in Inductors Technical Data.

PISA 4119



Magnetically Shielded

Engineer's Kit: EK-PISA4119-X



Part No	Inductance L (μH)	f _L (kHz)	Tol ± (%)	DCR max (Ω)	Rated DC Current (A)	
PISA4119-1R0N-04	1	100 @ 0.1 V	30	0.007	10.0	8.80
PISA4119-1R5N-04	1.5	100 @ 0.1 V	30	0.010	8.50	7.52
PISA4119-2R2M-04	2.2	100 @ 0.1 V	20	0.010	7.20	7.20
PISA4119-4R7M-04	4.7	100 @ 0.1 V	20	0.016	4.87	5.50
PISA4119-6R8M-04	6.8	100 @ 0.1 V	20	0.022	3.87	4.85
PISA4119-100M-04	10	100 @ 0.1 V	20	0.034	3.23	4.20
PISA4119-150M-04	15	100 @ 0.1 V	20	0.040	2.60	3.20
PISA4119-220M-04	22	100 @ 0.1 V	20	0.067	2.10	2.80
PISA4119-330M-04	33	100 @ 0.1 V	20	0.100	1.70	2.35
PISA4119-470M-04	47	100 @ 0.1 V	20	0.142	1.36	1.65
PISA4119-680M-04	68	100 @ 0.1 V	20	0.180	1.18	1.60
PISA4119-101M-04	100	100 @ 0.1 V	20	0.275	0.96	1.30
PISA4119-121M-04	120	100 @ 0.1 V	20	0.340	0.84	1.06
PISA4119-151M-04	150	100 @ 0.1 V	20	0.450	0.74	1.00
PISA4119-221M-04	220	100 @ 0.1 V	20	0.583	0.66	0.80
PISA4119-331M-04	330	100 @ 0.1 V	20	0.820	0.56	0.70
PISA4119-471M-04	470	100 @ 0.1 V	20	1.370	0.45	0.55
PISA4119-681M-04	680	100 @ 0.1 V	20	1.900	0.37	0.50
PISA4119-102M-04	1000	100 @ 0.1 V	20	2.800	0.33	0.40

Core Material: Ferrite

Base Material: Plastic

Revision date: 29 Nov 2023

SPQ: Taped / Reel 600 [-04]

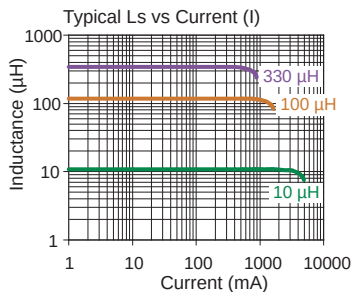
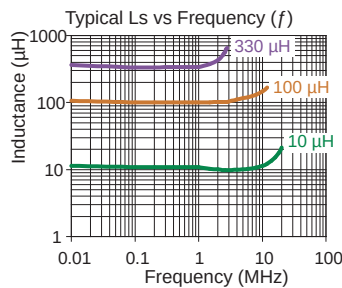
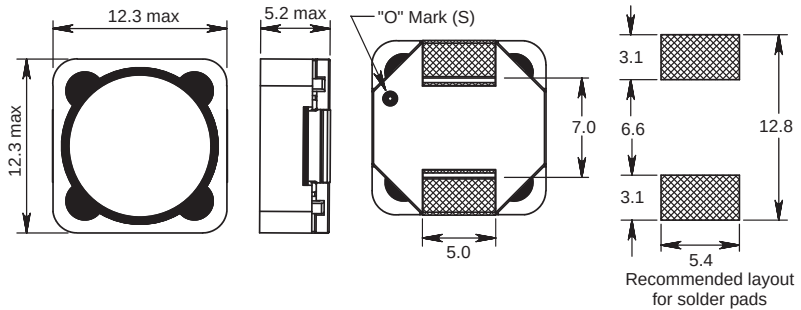
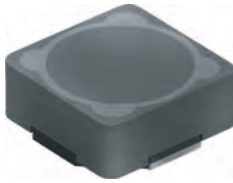
Remarks: - I_{sat} & I_R - see description in Inductors Technical Data.

PISA 4716



Magnetically Shielded

Engineer's Kit: EK-PISA4716-X



Part No	Inductance L (μH)	f_L (kHz)	Tol $\pm$ (%)	DCR max (m Ω)	Rated DC Current I (A)
PISA4716-3R3M-04	3.3	100	20	15	7.0
PISA4716-3R9M-04	3.9	100	20	15	6.5
PISA4716-4R7M-04	4.7	100	20	18	5.7
PISA4716-5R6M-04	5.6	100	20	30	5.7
PISA4716-6R8M-04	6.8	100	20	23	4.9
PISA4716-8R2M-04	8.2	100	20	26	4.6
PISA4716-100M-04	10	100	20	28	4.5
PISA4716-120M-04	12	100	20	38	4.0
PISA4716-150M-04	15	100	20	50	3.2
PISA4716-180M-04	18	100	20	57	3.1
PISA4716-220M-04	22	100	20	66	2.9
PISA4716-270M-04	27	100	20	80	2.8
PISA4716-330M-04	33	100	20	97	2.7
PISA4716-390M-04	39	100	20	132	2.1
PISA4716-470M-04	47	100	20	150	1.9
PISA4716-560M-04	56	100	20	190	1.8
PISA4716-680M-04	68	100	20	220	1.5
PISA4716-820M-04	82	100	20	260	1.3
PISA4716-101M-04	100	100	20	308	1.2
PISA4716-121M-04	120	100	20	380	1.1
PISA4716-151M-04	150	100	20	530	0.95
PISA4716-181M-04	180	100	20	620	0.85
PISA4716-221M-04	220	100	20	700	0.8
PISA4716-271M-04	270	100	20	876	0.6
PISA4716-331M-04	330	100	20	990	0.5

Core Material: Ferrite

Revision date: 29 Nov 2023

Base Material: Plastic

SPQ: Taped / Reel 500 [-04]

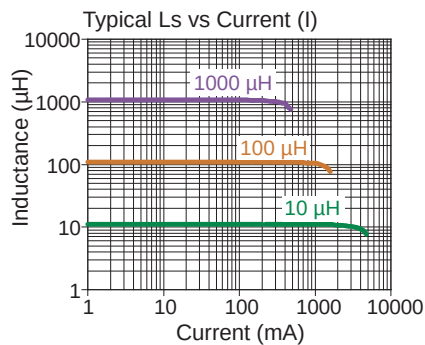
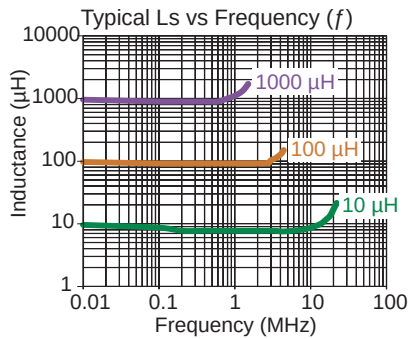
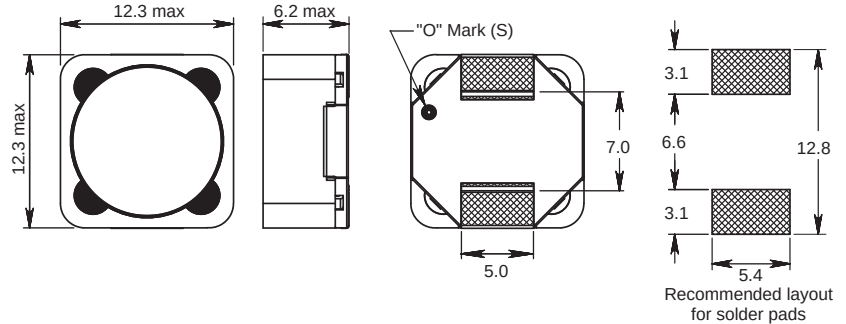
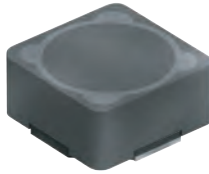
Remarks: - Additional gluing to PCB board is recommended.
- I - see description in Inductors Technical Data.

PISA 4720



Magnetically Shielded

Engineer's Kit: EK-PISA4720-X



Part No	Inductance	f_L	Tol	DCR	Rated DC
	L (μH)	(kHz)	± (%)	max (mΩ)	Current I (A)
PISA4720-1R3N-04	1.3	7960	30	12	8.0
PISA4720-2R1N-04	2.1	7960	30	14	7.0
PISA4720-3R1N-04	3.1	7960	30	17	5.0
PISA4720-4R4N-04	4.4	7960	30	20	5.0
PISA4720-5R8N-04	5.8	7960	30	21	4.4
PISA4720-6R8N-04	6.8	7960	30	30	4.2
PISA4720-7R5N-04	7.5	7960	30	24	4.2
PISA4720-100M-04	10	1	20	25	4.0
PISA4720-120M-04	12	1	20	27	3.5
PISA4720-150M-04	15	1	20	30	3.3
PISA4720-180M-04	18	1	20	34	3.0
PISA4720-220M-04	22	1	20	36	2.8
PISA4720-270M-04	27	1	20	51	2.3
PISA4720-330M-04	33	1	20	57	2.1
PISA4720-360M-04	36	1	20	61	2.0
PISA4720-390M-04	39	1	20	68	2.0
PISA4720-470M-04	47	1	20	75	1.8
PISA4720-560M-04	56	1	20	110	1.7
PISA4720-680M-04	68	1	20	120	1.5
PISA4720-820M-04	82	1	20	140	1.4
PISA4720-101M-04	100	1	20	160	1.3
PISA4720-121M-04	120	1	20	170	1.1
PISA4720-151M-04	150	1	20	230	1.0
PISA4720-181M-04	180	1	20	290	0.9
PISA4720-221M-04	220	1	20	400	0.8
PISA4720-271M-04	270	1	20	460	0.75
PISA4720-331M-04	330	1	20	510	0.68
PISA4720-391M-04	390	1	20	690	0.65
PISA4720-471M-04	470	1	20	770	0.58
PISA4720-561M-04	560	1	20	860	0.54
PISA4720-681M-04	680	1	20	1200	0.48
PISA4720-821M-04	820	1	20	1340	0.43
PISA4720-102M-04	1000	1	20	1530	0.40

Core Material: Ferrite

Revision date: 29 Nov 2023

Base Material: Plastic

SPQ: Taped / Reel 500 [-04]

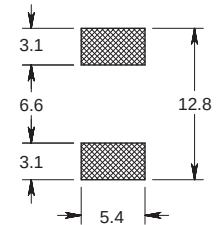
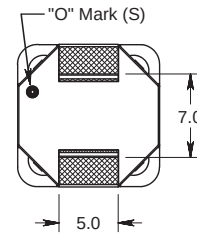
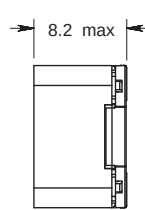
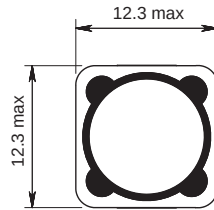
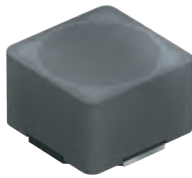
Remarks: - Additional gluing to PCB board is recommended.
- I - see description in Inductors Technical Data.

PISA 4728



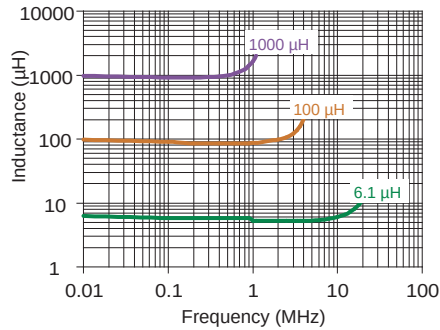
Magnetically Shielded

Engineer's Kit: EK-PISA4728-X

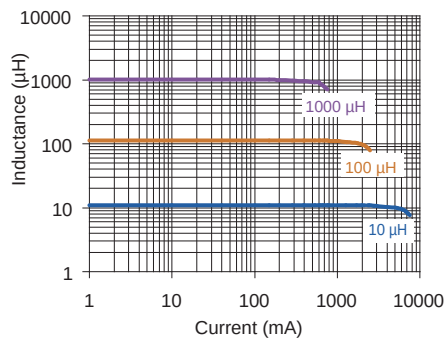


Recommended Layout
for solder pads

Typical Ls vs Frequency (f)



Typical Ls vs Current (I)



Part No	Inductance L (μH)	f _L (kHz)	Tol ± (%)	DCR max (mΩ)	Rated DC Current I (A)
PISA4728-1R2N-04	1.2	100	30	7.0	9.8
PISA4728-2R4N-04	2.4	100	30	11.5	8.0
PISA4728-3R5N-04	3.5	100	30	13.5	7.5
PISA4728-4R7N-04	4.7	100	30	15.8	6.8
PISA4728-5R6N-04	5.6	100	30	15.8	6.7
PISA4728-6R1N-04	6.1	100	30	17.6	6.6
PISA4728-7R6N-04	7.6	100	30	20.0	5.9
PISA4728-100M-04	10	1	20	21.6	5.4
PISA4728-120M-04	12	1	20	24.3	4.9
PISA4728-150M-04	15	1	20	27.0	4.5
PISA4728-180M-04	18	1	20	39.2	3.9
PISA4728-220M-04	22	1	20	43.2	3.6
PISA4728-270M-04	27	1	20	45.9	3.4
PISA4728-330M-04	33	1	20	64.8	3.0
PISA4728-390M-04	39	1	20	72.9	2.75
PISA4728-470M-04	47	1	20	100	2.50
PISA4728-560M-04	56	1	20	110	2.35
PISA4728-680M-04	68	1	20	140	2.10
PISA4728-820M-04	82	1	20	160	1.95
PISA4728-101M-04	100	1	20	220	1.70
PISA4728-121M-04	120	1	20	250	1.60
PISA4728-151M-04	150	1	20	280	1.42
PISA4728-181M-04	180	1	20	350	1.30
PISA4728-221M-04	220	1	20	390	1.16
PISA4728-271M-04	270	1	20	560	1.06
PISA4728-331M-04	330	1	20	640	0.95
PISA4728-391M-04	390	1	20	700	0.88
PISA4728-471M-04	470	1	20	980	0.79
PISA4728-561M-04	560	1	20	1070	0.73
PISA4728-681M-04	680	1	20	1480	0.67
PISA4728-821M-04	820	1	20	1640	0.60
PISA4728-102M-04	1000	1	20	1820	0.55
PISA4728-152M-04	1500	1	20	2300	0.45

Core Material: Ferrite

Base Material: Plastic

Revision date: 29 Nov 2023

SPQ: Taped / Reel 500 [-04]

Remarks: - Additional gluing to PCB board is recommended.

- I - see description in Inductors Technical Data.

Rod Core Chokes (RCC)

FASTRON's Rod Core Choke series consists of the most common inductance values. These chokes are available with different core sizes, always designed as single layer coils. The inductors are able to carry AC-line voltage and offer high saturation currents as well as rated currents, up to 10A. All FASTRON RCCs are AEC-Q200 qualified with high mechanical stability. Custom designs are available upon request.

Applications Noise suppression coil for brush-collector motors, automotive, industrial, HF-filters, attenuation circuits and storage inductor in converters, switching regulators, SMPS-power supplies, and broadband filtering.

Technical Data

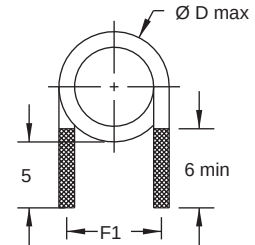
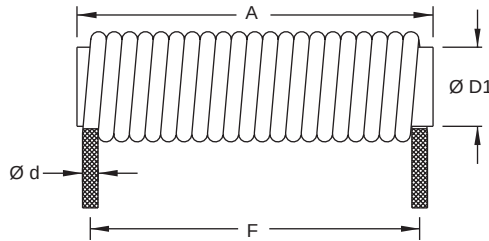
L – Value (rated inductance)	Measured with HP 4194A Impedance / Gain-phase Analyzer or equivalent at frequency f_L
DCR (max)	Measured at 25 °C
Rated DC Current	I based on temperature rise, determined at the point where the temperature rise does not exceed 15°C above the ambient temperature of 25°C
Operating Temperature	-55°C to 140°C (including component self-heating)
Recommended Soldering Method	Wave
Moisture Sensitivity Levels (MSL)	MSL Level 1, indicating unlimited floor life at $\leq 30^\circ\text{C}$ / 85% relative humidity
Solderability	Using lead free solder (Sn 99.9) at $260^\circ\text{C} \pm 5^\circ\text{C}$ for 5 ± 0.5 seconds, min 90% solder coverage of metallization Standard: IEC 68-2-20 (Ta)
Resistance to Soldering Heat	Resistant to $260^\circ\text{C} \pm 5^\circ\text{C}$ for 10 ± 1 seconds Standard: IEC 68-2-20 (Tb)
Resistance to Solvent	Resistant to isopropyl alcohol for 5 ± 0.5 minutes at $23^\circ\text{C} \pm 5^\circ\text{C}$ Standard: IEC 68-2-45
Climatic Test	Defined by the following standards IEC 68-2-1 for cold test: -55°C for 96 hours IEC 68-2-2 for dry heat test: $+125^\circ\text{C}$ for 96 hours IEC 60068-2-78 for humidity test: 40°C at RH 95% for 4 days
Thermal Shock Test	Temperature cycle: -55°C to $+125^\circ\text{C}$ to -55°C Max/Min temperature duration: 15 minutes Temperature transition duration: 5 minutes Cycles: 25 Standard: MIL-STD-202G
Coil on Core strength	Core withstand a two times-test pressing force of 15N for 1 minute at room temperature (25°C).

Ordering Code Example: **3RCC-1R8M-00**

3 RCC 1R8 M 00
(Case Size)(Core Type) - (Inductance Value)(Tolerance) - (Packaging Code)

Case Size - Core diameter 3 and 3,3mm, 4mm, 5mm, 6mm
Core Type - Ferrite rod bar
Tolerances - M ($\pm 20\%$)
Packaging Code - 00 (Loose in box)

3RCC



Single layer

Part No	Inductance L (µH)	f _L (MHz)	Tol ± (%)	DCR (Ω)	Temp. rise Δ (°C)	Rated DC Current (A)		Dimensions					
						I	I _{sat}	Ø d	Ø D1	A	Ø D max	F	F1
3RCC-1R8M-00	1.8	1	20	0.008	< 15	2.5	10.0	0.67	3.0	12	4.6	8.8	3.7
3RCC-4R7M-00	4.7	1	20	0.012	< 15	2.5	5.0	0.67	3.0	20	4.6	13.5	3.7
3RCC-7R0M-00	7.0	1	20	0.016	< 15	1.9	4.6	0.63	3.3	22	4.8	14.5	4.0
3RCC-9R0M-00	9.0	1	20	0.020	< 15	1.0	3.7	0.63	3.3	22	4.8	17.5	4.0

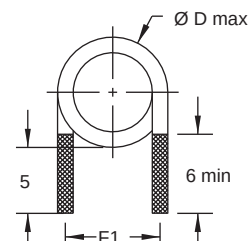
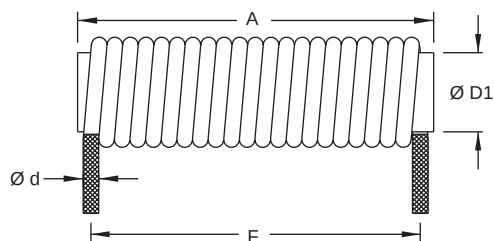
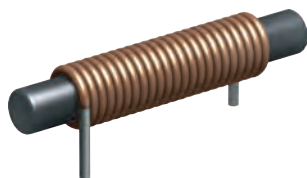
Core Material: Ferrite rod bar

Revision date: 04 Jul 2019

SPQ: Loose / Box 3000 [-00]

Remarks: Customized versions available upon request.

4RCC



Single layer

Part No	Inductance L (μH)	f _L (MHz)	Tol ± (%)	DCR (Ω)	Temp. rise Δ (°C)	Rated DC Current (A)		Dimensions					
						I	I _{sat}	Ø d	Ø D1	A	Ø D max	F	F1
4RCC-1R8M-00	1.8	1	20	0.003	< 15	10	15.0	1.32	4.0	20	6.9	15.9	5.4
4RCC-4R7M-00	4.7	1	20	0.007	< 15	6	8.2	1.00	4.0	25	6.3	18.4	5.1
4RCC-7R0M-00	7.0	1	20	0.008	< 15	5	6.5	0.95	4.0	30	6.2	19.5	5.0
4RCC-9R0M-00	9.0	1	20	0.015	< 15	4	5.6	0.85	4.0	30	6.0	20.1	4.9
4RCC-120M-00	12.0	0.1	20	0.022	< 15	2	5.0	0.63	4.0	25	5.5	16.9	4.7

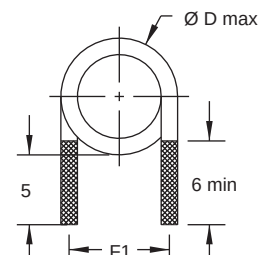
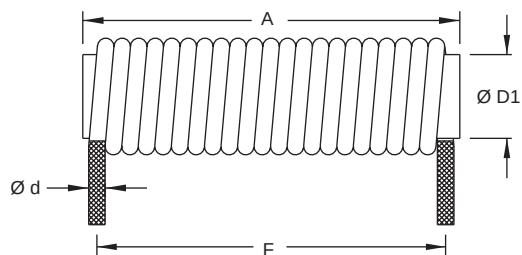
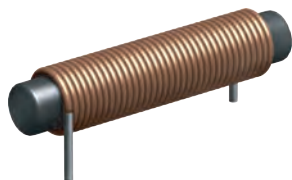
Core Material: Ferrite rod bar

Revision date: 04 Jul 2019

SPQ: Loose / Box 2000 [-00]

Remarks: Customized versions available upon request.

5RCC



Single layer

Part No	Inductance L (µH)	f _L (MHz)	Tol ± (%)	DCR (Ω)	Temp. rise Δ (°C)	Rated DC Current (A)		Dimensions					
						I	I _{sat}	Ø d	Ø D1	A	Ø D max	F	F1
5RCC-2R5M-00	2.5	1	20	0.005	< 15	6.0	18.0	1.00	5.0	20	7.3	11.0	6.1
5RCC-4R7M-00	4.7	1	20	0.008	< 15	5.0	13.0	0.95	5.0	25	7.2	14.5	6.0
5RCC-7R0M-00	7.0	1	20	0.017	< 15	3.0	11.0	0.71	5.0	20	6.7	15.3	5.7
5RCC-100M-00	10.0	0.1	20	0.027	< 15	2.0	9.0	0.63	5.0	20	6.5	16.2	5.7
5RCC-120M-00	12.0	0.1	20	0.024	< 15	2.5	8.5	0.63	5.0	25	6.5	14.9	5.7
5RCC-250M-00	25.0	0.1	20	0.038	< 15	1.0	5.0	0.63	5.0	30	6.5	22.8	5.7

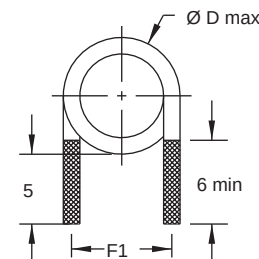
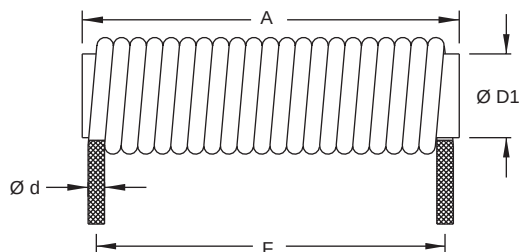
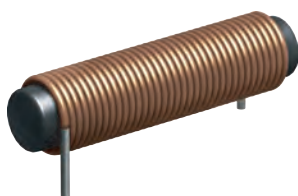
Core Material: Ferrite rod bar

Revision date: 04 Jul 2019

SPQ: Loose / Box 2400 [-00]

Remarks: Customized versions available upon request.

6RCC



	Part No	Inductance	f _L	Tol	DCR	Temp. rise	Rated DC Current (A)		Dimensions					
		L (μH)	(MHz)	± (%)	(Ω)	Δ (°C)	I	I _{sat}	Ø d	Ø D1	A	Ø D max	F	F1
Single layer	6RCC-4R0M-00	4.0	1.0	20	0.005	< 15	10	19.0	1.32	6.0	25	8.9	18.7	7.4
	6RCC-6R0M-00	6.0	1.0	20	0.008	< 15	7.0	17.0	1.06	6.0	25	8.4	18.6	7.1
	6RCC-100M-00	10.0	0.1	20	0.013	< 15	5.0	14.0	0.95	6.0	25	8.2	22.4	7.0
	6RCC-150M-00	15.0	0.1	20	0.030	< 15	2.0	10.0	0.63	6.0	25	7.5	16.6	6.7
	6RCC-220M-00	22.0	0.1	20	0.034	< 15	2.0	7.8	0.63	6.0	30	7.5	18.2	6.7
	6RCC-300M-00	30.0	0.1	20	0.046	< 15	2.0	7.0	0.63	6.0	30	7.5	25.5	6.7

Core Material: Ferrite rod bar

Revision date: 04 Jul 2019

SPQ: Loose / Box 2000 [-00]

Remarks: Customized versions available upon request.

Toroid Line Chokes (TLC)

FASTRON's Toroid Line Chokes offer a wide range of inductance values from 10μH to 1mH across 7 series. These chokes are able to carry currents from 0.1A up to 10A. The core material is an iron-powder mixture optimized for high saturation currents. The copper wire current density is approximately 6.5A/mm². FASTRON's TLCs are offered as vertical mounted versions for THT assembly only. Customized lead-forming is available upon request.

Applications Switched mode power supplies and control units, EMI/RFI- suppression and filtering, line-filters, and output-chokes.

Technical Data

L – Value (rated inductance)	Measured with HP 4194A Impedance / Gain-phase Analyzer or equivalent at frequency f _L
DCR (max)	Measured at 25 °C
Rated DC Current	Isat, based on the Inductance Losses (Lo/L Load) where the Inductance decrease 30% max.
DC Isolation	Winding to core 1000Volt
Operating Temperature	-55°C to 115°C (including component self-heating)
Leads	Leadfree tinned, RoHS
Recommended Soldering Method	Wave
Moisture Sensitivity Levels (MSL)	MSL Level 1, indicating unlimited floor life at ≤ 30°C / 85% relative humidity
Solderability	Using lead free solder (Sn 99.9) at 260°C ± 5°C for 5 ± 0.5 seconds, min 90% solder coverage of metallization Standard: IEC 68-2-20 (Ta)
Resistance to Soldering Heat	Resistant to 260°C ± 5°C for 10 ± 1 seconds Standard: IEC 68-2-20 (Tb)
Resistance to Solvent	Resistant to isopropyl alcohol for 5 ± 0.5 minutes at 23°C ± 5°C Standard: IEC 68-2-45
Climatic Test	Defined by the following standards: IEC 68-2-1 for cold test: -55°C for 96 hours IEC 68-2-2 for dry heat test: +125°C for 96 hours IEC 60068-2-78 for humidity test: 40°C at RH 95% for 4 days
Thermal Shock Test	Temperature cycle: -55°C to +125°C to -55°C Max/Min temperature duration: 15 minutes Temperature transition duration: 5 minutes Cycles: 25 Standard: MIL-STD-202G

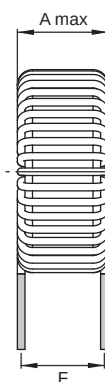
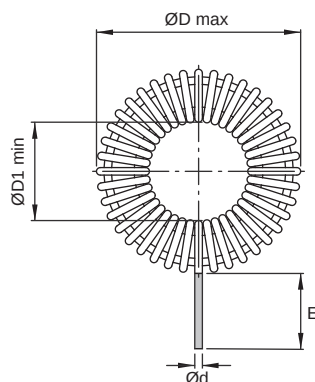
Ordering Code Example: TLC/10A-102M-00

TLC/10A - 102 - M - 00
(Model/Current, I_R) (Inductance Value) (Tolerance) (Packaging Code)

Core Type - Iron dust
Tolerances - M (±20%)
Packaging Code - 00 (Loose in box)

Technical Data

TLC/0.1A



Part No	Inductance (fL = 1 kHz)		Tol ± (%)	DCR max (mΩ)	Weight (grams)	Dimensions					
	At Idc=0A (μH)	At rated current (μH)				ØD max	F	A max	E	Ød	ØD1 min
TLC/0.1A-100M-00	10	10	20	330	2	12	4	5	10	0.15	4.5
TLC/0.1A-150M-00	15	15	20	420	2	12	4	5	10	0.15	4.5
TLC/0.1A-220M-00	22	22	20	500	2	12	4	5	10	0.15	4.5
TLC/0.1A-330M-00	33	32.9	20	600	2	12	4	5	10	0.15	4.5
TLC/0.1A-470M-00	47	46.8	20	640	2	12	4	5	10	0.15	4.5
TLC/0.1A-680M-00	68	67.6	20	830	2	12	4	5	10	0.15	4.5
TLC/0.1A-101M-00	100	99.3	20	940	2	12	4	5	10	0.15	4.5
TLC/0.1A-151M-00	150	148.5	20	1270	2.1	12	4	5	10	0.15	4.5
TLC/0.1A-221M-00	220	216.7	20	1480	2.1	12	4	5	10	0.15	4.5
TLC/0.1A-331M-00	330	324	20	1880	2.1	12	4	5	10	0.15	4.5
TLC/0.1A-471M-00	470	458.7	20	2020	2.2	12.5	4.5	5.5	10	0.15	4.5
TLC/0.1A-681M-00	680	656.2	20	2670	2.3	12.5	4.5	5.5	10	0.15	4.5
TLC/0.1A-102M-00	1000	955	20	3100	2.4	12.5	4.5	5.5	10	0.15	4.5

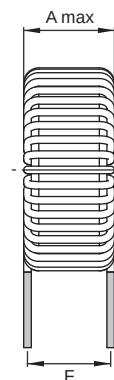
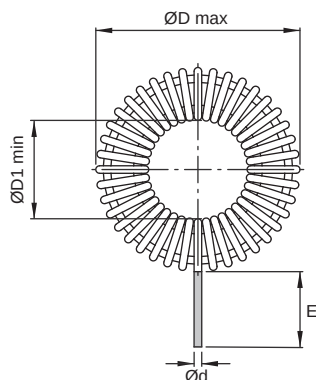
Core Material: Iron dust

Revision date: 08 Aug 2014

SPQ: Loose / Box 2000 [-00]

Remarks: Customized versions available upon request.

TLC/0.25A



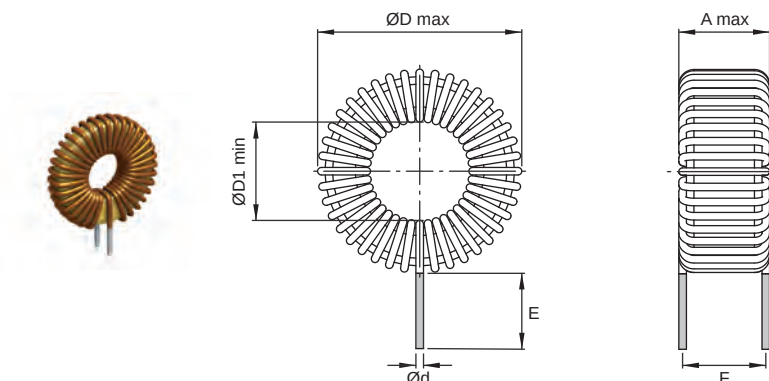
Part No	Inductance (fL = 1 kHz)		Tol ± (%)	DCR max (mΩ)	Weight (grams)	Dimensions						SPQ: Loose / Box
	At Idc=0A (μH)	At rated current (μH)				ØD max	F	A max	E	Ød	ØD1 min	
TLC/0.25A-100M-00	10	10	20	130	2	12	4	5	10	0.23	4.5	2000
TLC/0.25A-150M-00	15	14.9	20	165	2	12	4	5	10	0.23	4.5	2000
TLC/0.25A-220M-00	22	21.8	20	195	2.1	12	4	5	10	0.23	4.5	2000
TLC/0.25A-330M-00	33	32.6	20	235	2.1	12	4	5	10	0.23	4.5	2000
TLC/0.25A-470M-00	47	46.3	20	260	2.1	12.5	4	5	10	0.23	4.5	2000
TLC/0.25A-680M-00	68	66.5	20	325	2.2	12	4	5	10	0.23	4.5	2000
TLC/0.25A-101M-00	100	97	20	360	2.2	12.5	4	5	10	0.23	4.5	2000
TLC/0.25A-151M-00	150	143.5	20	490	2.3	12	4	5	10	0.23	4.5	2000
TLC/0.25A-221M-00	220	207.2	20	580	2.3	12.5	4	5	10	0.23	4.5	2000
TLC/0.25A-331M-00	330	303.3	20	750	2.4	12.5	4	5	10	0.23	4.5	2000
TLC/0.25A-471M-00	470	429.6	20	1030	3.3	14.5	4.5	6.5	10	0.23	4.6	1500
TLC/0.25A-681M-00	680	602.5	20	1300	3.5	14	4.5	6.5	10	0.23	4.5	1500
TLC/0.25A-102M-00	1000	849	20	1420	3.6	15	4.5	6.5	10	0.23	4.5	1500

Core Material: Iron dust

Revision date: 08 Aug 2014

Remarks: Customized versions available upon request.

TLC/0.5A



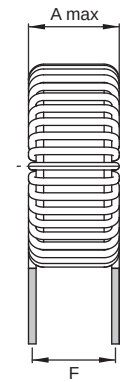
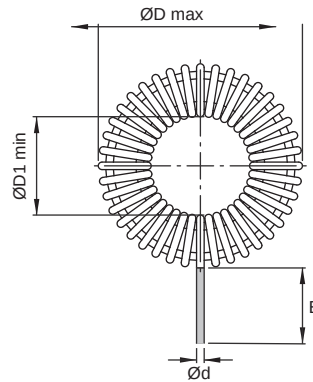
Part No	Inductance (fL = 1 kHz)		Tol ± (%)	DCR max (mΩ)	Weight (grams)	Dimensions						SPQ: Loose / Box
	At Idc=0A (μH)	At rated current (μH)				ØD max	F	A max	E	Ød	ØD1 min	
TLC/0.5A-100M-00	10	9.9	20	75	2.8	14.5	5.5	6.5	10	0.32	5	1500
TLC/0.5A-150M-00	15	14.8	20	100	2.9	14.5	5.5	6.5	10	0.32	5	1500
TLC/0.5A-220M-00	22	21.5	20	120	2.9	14.5	5.5	6.5	10	0.32	5	1500
TLC/0.5A-330M-00	33	32	20	145	3	14.5	5.5	6.5	10	0.32	5	1500
TLC/0.5A-470M-00	47	45	20	170	3	15	6	7	10	0.32	5	1500
TLC/0.5A-680M-00	68	64.2	20	210	3.1	15	6	7	10	0.32	5	1500
TLC/0.5A-101M-00	100	92.5	20	220	3.2	15	6	7	10	0.32	5	1500
TLC/0.5A-151M-00	150	134.2	20	300	3.4	15	6	7	10	0.32	5	1500
TLC/0.5A-221M-00	220	203.7	20	340	6.1	19.5	6	7	10	0.32	7	1000
TLC/0.5A-331M-00	330	296.7	20	440	6.4	19.5	6	7	10	0.32	7	1000
TLC/0.5A-471M-00	470	426.3	20	510	10	22.5	7.5	8.5	10	0.32	10	750
TLC/0.5A-681M-00	680	595.7	20	700	10.3	22.5	7.5	8.5	10	0.32	10	750
TLC/0.5A-102M-00	1000	836	20	786	10.8	23	7.5	8.5	10	0.32	10	750

Core Material: Iron dust

Revision date: 08 Sept 2016

Remarks: Customized versions available upon request.

TLC/1A



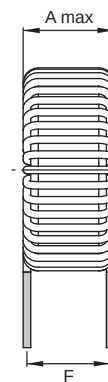
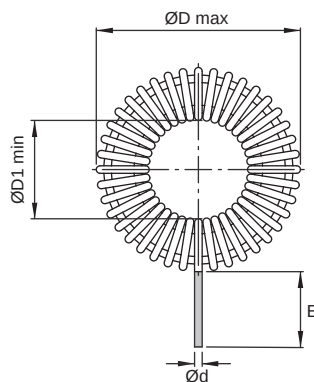
Part No	Inductance (fL = 1 kHz)		Tol ± (%)	DCR max (mΩ)	Weight (grams)	Dimensions						SPQ: Loose / Box
	At Idc=0A (μH)	At rated current (μH)				ØD max	F	A max	E	Ød	ØD1 min	
TLC/1A-100M-00	10	9.6	20	38	3	15	6	6.5	10	0.45	5	1500
TLC/1A-150M-00	15	14.2	20	48	3.2	15.5	6	7	10	0.45	5	1500
TLC/1A-220M-00	22	20.5	20	57	3.3	15.5	6	7	10	0.45	5	1500
TLC/1A-330M-00	33	29.8	20	70	3.4	15.5	6	7	10	0.45	5	1500
TLC/1A-470M-00	47	41.1	20	78	3.5	15.5	6	7	10	0.45	5	1500
TLC/1A-680M-00	68	61.9	20	96	6.2	20	6	7	10	0.45	7	1000
TLC/1A-101M-00	100	88.2	20	115	6.5	20	6	7	10	0.45	7	1000
TLC/1A-151M-00	150	133.2	20	158	10.3	23	8.5	9.5	10	0.45	9.5	750
TLC/1A-221M-00	220	187.4	20	192	10.6	23	8.5	9.5	10	0.45	9.5	750
TLC/1A-331M-00	330	264.7	20	236	11.2	23	8.5	9.5	10	0.45	9.5	750
TLC/1A-471M-00	470	417.4	20	325	33.3	31	13	14	10	0.45	11	280
TLC/1A-681M-00	680	579.4	20	393	34	31	13	14	10	0.45	11	280
TLC/1A-102M-00	1000	807	20	430	35	31	13	14	10	0.45	11	280

Core Material: Iron dust

Revision date: 26 Aug 2016

Remarks: Customized versions available upon request.

TLC/2.5A



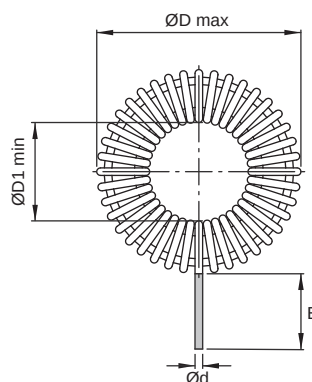
Part No	Inductance (fL = 1 kHz)		Tol ± (%)	DCR max (mΩ)	Weight (grams)	Dimensions						SPQ: Loose / Box
	At Idc=0A (μH)	At rated current (μH)				ØD max	F	A max	E	Ød	ØD1 min	
TLC/2.5A-100M-00	10	9.2	20	14.5	6.2	21	6.5	7.5	10	0.71	6.5	1000
TLC/2.5A-150M-00	15	13.2	20	19	6.7	21	6.5	7.5	10	0.71	6.5	1000
TLC/2.5A-220M-00	22	19.7	20	24.5	10.2	24	8.5	9.5	10	0.71	9	750
TLC/2.5A-330M-00	33	28.2	20	30	10.6	24	8.5	9.5	10	0.71	9	750
TLC/2.5A-470M-00	47	38.3	20	36	11	24	8.5	9.5	10	0.71	9	750
TLC/2.5A-680M-00	68	51.9	20	43.5	11.6	24	8.5	9.5	10	0.71	9	750
TLC/2.5A-101M-00	100	86	20	60	34	31	13	14	10	0.71	10.5	280
TLC/2.5A-151M-00	150	122.4	20	74	35	31	13	14	10	0.71	10.5	280
TLC/2.5A-221M-00	220	167.2	20	90	36.5	31	13	14	10	0.71	10.5	280
TLC/2.5A-331M-00	330	250	20	120	49.5	36.5	13	14	10	0.71	16	150
TLC/2.5A-471M-00	470	372	20	160	87	45	18	19	15	0.71	20	120
TLC/2.5A-681M-00	680	501	20	190	90	45	18	19	15	0.71	20	120
TLC/2.5A-102M-00	1000	786	20	230	170	51	21	22	15	0.71	20	75

Core Material: Iron dust

Revision date: 26 Aug 2016

Remarks: Customized versions available upon request.

TLC/10A



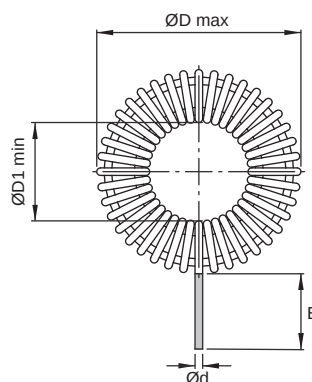
Part No	Inductance (fL = 1 kHz)		Tol ± (%)	DCR max (mΩ)	Weight (grams)	Dimensions						SPQ: Loose / Box
	At Idc=0A (μH)	At rated current (μH)				ØD max	F	A max	E	Ød	ØD1 min	
TLC/10A-100M-00	10	8.6	20	5.5	47	39	15	16	10	1.40	14	150
TLC/10A-150M-00	15	11.9	20	6.7	49	39	15	16	10	1.40	14	150
TLC/10A-220M-00	22	18.2	20	9	86	48	19	20	15	1.40	17	120
TLC/10A-330M-00	33	25.7	20	11	88	48	19	20	15	1.40	17	120
TLC/10A-470M-00	47	33.7	20	13.5	91	48	19	19	15	1.40	17	120
TLC/10A-680M-00	68	52.6	20	15.5	168	55	22	23	15	1.40	17	75
TLC/10A-101M-00	100	70.5	20	19	172	55	22	23	15	1.40	17	75
TLC/10A-151M-00	150	122.5	20	32	514	85	31	32	20	1.40	42	20
TLC/10A-221M-00	220	167	20	41	523	85	31	32	20	1.40	42	20
TLC/10A-331M-00	330	231	20	50	534	85	31	32	20	1.40	42	20
TLC/10A-471M-00	470	357	20	63	1024	85	56	57	20	1.40	42	10
TLC/10A-681M-00	680	476	20	79	1041	85	56	57	20	1.40	42	10
TLC/10A-102M-00	1000	781	20	94	2535	110	71	72	20	1.40	50	5

Core Material: Iron dust

Revision date: 26 Aug 2016

Remarks: Customized versions available upon request.

TLC/10A



Part No	Inductance (fL = 1 kHz)		Tol ± (%)	DCR max (mΩ)	Weight (grams)	Dimensions						SPQ: Loose / Box
	At Idc=0A (μH)	At rated current (μH)				ØD max	F	A max	E	Ød	ØD1 min	
TLC/10A-100M-00	10	8.6	20	5.5	47	39	15	16	10	1.40	14	150
TLC/10A-150M-00	15	11.9	20	6.7	49	39	15	16	10	1.40	14	150
TLC/10A-220M-00	22	18.2	20	9	86	48	19	20	15	1.40	17	120
TLC/10A-330M-00	33	25.7	20	11	88	48	19	20	15	1.40	17	120
TLC/10A-470M-00	47	33.7	20	13.5	91	48	19	19	15	1.40	17	120
TLC/10A-680M-00	68	52.6	20	15.5	168	55	22	23	15	1.40	17	75
TLC/10A-101M-00	100	70.5	20	19	172	55	22	23	15	1.40	17	75
TLC/10A-151M-00	150	122.5	20	32	514	85	31	32	20	1.40	42	20
TLC/10A-221M-00	220	167	20	41	523	85	31	32	20	1.40	42	20
TLC/10A-331M-00	330	231	20	50	534	85	31	32	20	1.40	42	20
TLC/10A-471M-00	470	357	20	63	1024	85	56	57	20	1.40	42	10
TLC/10A-681M-00	680	476	20	79	1041	85	56	57	20	1.40	42	10
TLC/10A-102M-00	1000	781	20	94	2535	110	71	72	20	1.40	50	5

Core Material: Iron dust

Revision date: 26 Aug 2016

Remarks: Customized versions available upon request.

FOKY2 July 12, 1991
Component – Electromagnetic Interference Filters

FASTRON SDN BHD
BAYAN LEPAS FREE TRADE ZONE , 11900
PENANG MALAYSIA

E123071 (S)
(A card)

Appliance filters: Models LASC-5ROM, -6ROM, -7ROM, -120M, -151M, -200M, -211M, -300M, -421M, -600M, -750M, -161M, -231M, -471M, MESC-3ROM, -5ROM, -7ROM, -100M, -120M, -150M, -220M, -250M, -400M, -550M, -560M, -101M, -131M, -161M, -221M, -351M, -471M, -681M, -122M, -152M, MISC-1ROM, -2ROM, -3ROM, -6ROM, -140M, -300M, -400M, -101M, SMSC-1ROM, -2ROM, -3ROM, -6ROM, -100M, -230M, -500M, -700M, -161M, LSSC-5ROM, -9ROM, -150M, -250M, MSSC-3ROM, -6ROM, -110M, -130M, -200M, SSSC-4ROM, -6ROM, -8ROM, -170M, 50A-121M, -331M, -821M, -392M, -832M, 77A-3R9M, -5R6M, -150M, -330M, -680M, -101M, -151M, -331M, -681M, -102M, -152M, -332M, -682M, -103M, -100M.

Choke coil: Models MICC-R10, -R12, -R15, -R18, -R22, -R27, -R33, -R39, -R47, -R56, -R68, -R82, -1R0, -1R2, -1R5, -1R8, -2R2, -2R7, -3R3, -3R9, -4R0, -4R7, -5R0, -5R6, -6R2, -6R8, -8R2, -100, -101, -102, -120, -121, -150, -151, -180, -181, -220, -221, -270, -271, -330, -331, -390, -391, -470, -471, -560, -561, -680, -681, -820, -821.

Reports: August 22, 1989; July 15, 1991.

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(Cont. on B card)
D11/0169339

FOKY2 July 12, 1991
Component – Electromagnetic Interference Filters

FASTRON SDN BHD

E123071 (S)
(B-cont. from A card)

Models MICC/N-R10, -R12, -R15, -R18, -R22, -R27, -R33, -R39, -R47, -R56, -R68, -R82, -1R0, -1R2, -1R5, -1R8, -2R2, -2R7, -3R3, -3R9, -4R0, -4R7, -5R0, -5R6, -6R2, -6R8, -8R2, -100, -101, -102, -120, -121, -150, -151, -180, -181, -220, -221, -270, -271, -330, -331, -390, -391, -470, -471, -560, -561, -680, -681, -820, -821.

Models SMCC-R10, -R12, -R15, -R18, -R22, -R27, -R33, -R39, -R47, -R56, -R68, -R82, -1R0, -1R2, -1R5, -1R8, -2R2, -2R7, -3R3, -3R9, -4R7, -5R6, -6R2, -6R8, -8R2, -100, -101, -102, -103, -120, -121, -122, -131, -150, -151, -152, -161, -180, -181, -182, -201, -220, -221, -222, -270, -271, -272, -330, -331, -332, -390, -391, -392, -470, -471, -472, -502, -560, -561, -562, -680, -681, -682, -820, -821, -822.

Report: July 15, 1991.

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(Cont. on C card)
D11/0195685

FOKY2 July 12, 1991
Component – Electromagnetic Interference Filters

FASTRON SDN BHD

E123071 (S)
(C-cont. from B card)

Models SMCC/N-R10, -R12, -R15, -R18, -R22, -R27, -R33, -R39, -R47, -R56, -R68, -R82, -1R0, -1R2, -1R5, -1R8, -2R2, -2R7, -3R3, -3R9, -4R7, -5R6, -6R2, -6R8, -8R2, -100, -101, -102, -103, -120, -121, -122, -131, -150, -151, -152, -161, -180, -181, -182, -201, -220, -221, -222, -270, -271, -272, -330, -331, -332, -390, -391, -392, -470, -471, -472, -502, -560, -561, -562, -680, -681, -682, -820, -821, -822.

Marking: Company name or trademark  and model designation.

See General Information Preceding These Recognitions.

For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

Report: July 15, 1991.

Cards E123071A, B and C (three cards) replace E123071 dated June 6, 1990.

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D11/0195686

As far as patents or other rights of third parties are concerned, liability is only assumed for components per se, not for applications, processes and circuits implemented within components or assemblies. The information describes the type of component and shall not be considered as assured characteristics.
Terms of delivery and rights to change design reserved.

09/05

Product Available From

FASTRON'S Component Key Characteristics



Approved according to AEC-Q200



Designed for High Q-values



Approved according to AEC-Q200
with High Temperature



Exceptionally High Q-values



Suitable for High Temperature



Optimized for High Currents



Part is RoHS conform and
Halogen free



Optimized for High Voltages



Mechanical Shock and Vibration Proof

World Headquarters (FASTRON GmbH)
Raphaelweg 15, 85625 Piusheim
Germany

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GERMANY | germany@fastrongroup.com