

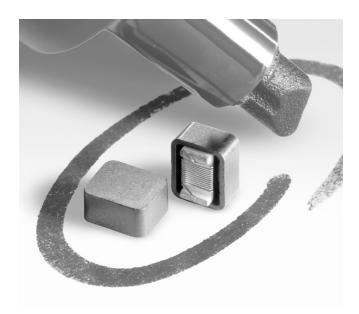








Filter Inductors - 1812FS Series



DCD5

CDE

				DCR5	SRF ⁶		
Part number ¹	L ² (μΗ)	%³ tol	Q ⁴ min	max (Ohms)	typ (MHz)	Isat ⁷ (mA)	Irms ⁸ (mA)
1812FS-102 L	1.0	10.5	30	0.070	320	3100	2950
1812FS-122 L	1.2	10,5	35	0.070	280	2800	2600
1812FS-152 L	1.5	10,5	20	0.110	200	2100	2850
1812FS-222 L	2.2	10,5	30	0.103	175	1800	2700
1812FS-242 L	2.4	10,5	25	0.120	160	1900	2050
1812FS-272_L_	2.7	10,5	30	0.200	165	1400	2100
1812FS-332_L_	3.3	10,5	33	0.185	160	1400	1900
1812FS-392_L_	3.9	10,5	32	0.195	145	1300	1700
1812FS-472_L_	4.7	10,5	28	0.15	125	1000	1800
1812FS-562_L_	5.6	10,5	35	0.40	110	1000	1650
1812FS-682_L_	6.8	10,5	35	0.35	110	850	1450
1812FS-103_L_	10	10,5	35	0.55	90	710	1400
1812FS-153_L_	15	10,5	40	0.75	75	680	1150
1812FS-223_L_	22	10,5	45	0.85	15	600	855
1812FS-333_L_	33	10,5	45	1.1	10	540	820
1812FS-393_L_	39	10,5	45	1.1	9.8	500	710
1812FS-473_L_	47	10,5	45	1.2	8.0	390	645
1812FS-683_L_	68	10,5	45	1.8	14.2	260	650
1812FS-104_L_	100	10,5	45	2.5	4.5	260	520
1812FS-154_L_	150	10,5	40	3.8	3.4	220	475
1812FS-224_L_	220	10,5	45	5.4	3.0	180	390
1812FS-274_L_	270	10,5	35	6.5	2.0	150	350
1812FS-334_L_	330	10,5	45	6.8	3.0	150	310
1812FS-394_L_	390	10,5	35	7.6	2.6	140	310
1812FS-474_L_	470	10,5	35	8.7	2.1	130	280
1812FS-564_L_	560	10,5	20	11.2	1.60	110	280
1812FS-684_L_	680	10,5	25	12.7	1.90	100	250
1812FS-824_L_	820	10,5	25	16.8	1.45	90	210
1812FS-105_L_	1000	10,5	30	19.5	1.68	90	160

- · Magnetically shielded chip inductors
- Provides high performance in transmit and receive filters
- 29 inductance values from 1.0 1000 μH

Core material Ceramic/Ferrite

Terminations RoHS compliant silver-palladium-platinum-glass frit. Other teminations available at additional cost.

Weight 0.33 - 0.36 g

Ambient temperature -40°C to +85°C with Irms current

Maximum part temperature +125°C (ambient + temp rise). Derating.

Storage temperature Component: -40°C to +125°C.

Tape and reel packaging: -40°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at $<30^{\circ}$ C / 85% relative humidity)

Packaging 600/7" reel; 2200/13" reel. Plastic tape: 12 mm wide, 0.25 mm thick, 8 mm pocket spacing, 3.9 mm pocket depth

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

When ordering, please specify tolerance, termination, and packaging codes:

1812FS-105JLC

Tolerance: J =

J = 5% K = 10%
(Table shows stock tolerances in bold.)

 $\textbf{Termination:} \ \ \textbf{L} = \text{RoHS compliant silver-palladium-platinum-glass frit}.$

R = RoHS compliant matte tin over nickel over silver-

platinum-glass frit.

Packaging: C = 7" machine-ready reel. EIA-481 embossed plastic tape (600 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).

D = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (2200 parts per full reel).

B = Less than full reel. In an effort to simplify our part numbering system, Coilcraft is eliminating the need for multiple packaging codes. When ordering, simply change the last letter of your part number from B to C.

- Inductance measured at 100 kHz, 0.1 Vrms, 0 Adc using a Coilcraft SMD-A fixture in an Agilent/HP 4263B impedance analyzer.
- 3. Tolerances in bold are stocked for immediate shipment.
- 4. Q measured at 1 MHz on an Agilent/HP 4291A with an Agilent/HP 16193 test fixture.
- DCR measured on a micro-ohmmeter and a Coilcraft CCF840 test fixture.
- SRF measured using an Agilent/HP 8753D network analyzer and a Coilcraft SMD-D test fixture.
- DC current at 25°C that causes an inductance drop of 10% (typ) from its value without current. Click for temperature derating information.
- Current that causes a 40°C temperature rise from 25°C ambient. This
 information is for reference only and does not represent absolute
 maximum ratings. Click for temperature derating information.
- 9. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



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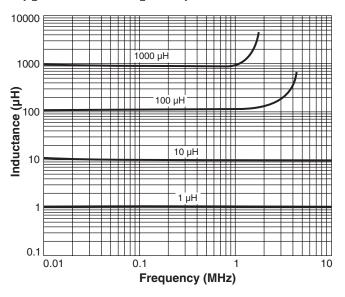
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This product may not be used in medical or high risk applications without prior Coilcraft approval Specification subject to change without notice Please check web site for latest information

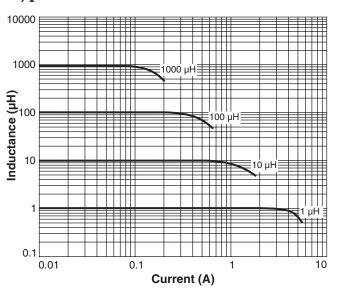


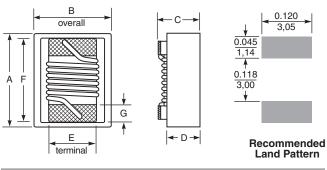
Filter Inductors – 1812FS Series

Typical L vs Frequency



Typical L vs Current





A max	B max	C max	D ref	E ref	F ref	G	
0.231	0.196	0.150	0.107	0.100	0.178	0.025	inches
5,87	4,98	3,81	2,72	2,54	4,52	0,64	mm



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Coilcraft:

1812FS-332JLC 1812FS-472JLB 1812FS-394JLB 1812FS-103JLB 1812FS-224JLC 1812FS-274JLC 1812FS-392JLB 1812FS-223JLB 1812FS-104JLC 1812FS-102JLB 1812FS-103JLC 1812FS-334JLC 1812FS-392JLB 1812FS-473JLC 1812FS-152JLC 1812FS-564JLC 1812FS-564JLB 1812FS-684JLB 1812FS-393JLC 1812FS-102JLC 1812FS-222JLC 1812FS-272JLC 1812FS-332JLB 1812FS-105JLC 1812FS-242JLC 1812FS-153JLB 1812FS-333JLC 1812FS-683JLC 1812FS-104JLB 1812FS-474JLB 1812FS-683JLC 1812FS-562JLC 1812FS-222JLB 1812FS-682JLB 1812FS-153JLC 1812FS-824JLB 1812FS-122JLC 1812FS-333JLB 1812FS-122JLB 1812FS-682JLC 1812FS-824JLB 1812FS-122JLC 1812FS-333JLB 1812FS-122JLB 1812FS-392JLC 1812FS-152JLB 1812FS-682JLC 1812FS-105JLB 1812FS-472JLC 1812FS-473JLB 1812FS-393JLB 1812FS-224JLB 1812FS-394JLC 1812FS-223JLC 1812FS-334JLB 1812FS-272JLB 1812FS-224JLB 1812FS-274JLB 1812FS-274JLB