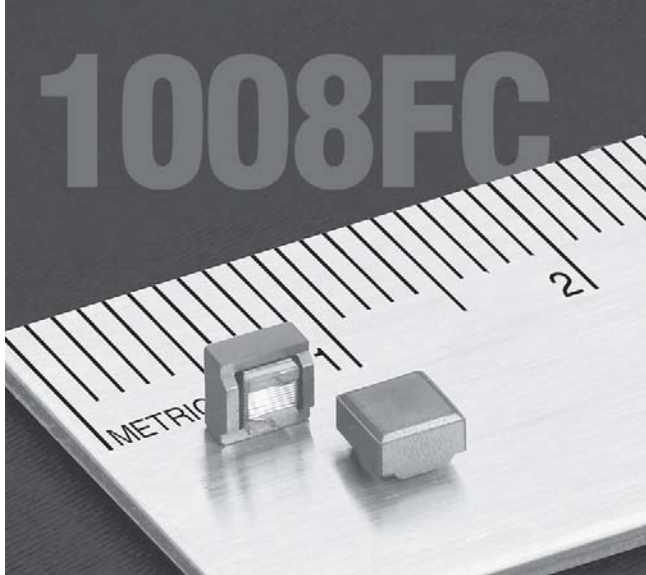




PRELIMINARY

Filter Inductors - 1008FC Series



Coilcraft's new 1008FC series is an economical, high performance filter inductor. It features a wide frequency range, low DC resistance and magnetic shielding to reduce crosstalk.

Only 0.1 inch high, they are ideal for applications requiring magnetic shielding, the smallest size and lowest cost. Typical uses include notebook computers, wireless communication and handheld devices.

Part number ¹	L ±10% ² (nH)	L test freq (MHz)	Q min ³	SRF typ ⁴ (MHz)	DCR max ⁵ (Ohms)	Irms (A) ⁶	
						20°C rise	40°C rise
1008FC-151KL_	150	25	28	940	0.66	0.58	0.79
1008FC-181KL_	180	25	29	840	0.81	0.55	0.73
1008FC-221KL_	220	25	29	860	0.76	0.51	0.70
1008FC-271KL_	270	25	31	660	0.92	0.49	0.68
1008FC-331KL_	330	25	30	600	1.02	0.47	0.63
1008FC-391KL_	390	25	31	550	1.06	0.43	0.58
1008FC-471KL_	470	25	31	500	1.15	0.42	0.58
1008FC-561KL_	560	25	31	540	1.35	0.39	0.53
1008FC-621KL_	620	25	30	390	1.35	-	0.51
1008FC-681KL_	680	25	30	350	1.40	-	0.50
1008FC-751KL_	750	25	37	340	1.53	0.37	0.50
1008FC-821KL_	820	25	37	320	1.65	0.36	0.49
1008FC-911KL_	910	25	35	310	1.72	0.35	0.48
1008FC-102KL_	1000	7.9	32	290	1.83	0.35	0.47

1. When ordering, please specify **termination** and **packaging** codes:

1008FC-105K L C

Termination: L = RoHS compliant silver-palladium-platinum-glass frit.
Special order: T = RoHS tin-silver-copper (95.5/4/0.5)
or S = non-RoHS tin-lead (63/37).

Packaging: C = 7" machine-ready reel. EIA-481 embossed plastic tape (750 parts per full reel).

B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter C instead.

D = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (2500 parts per full reel).

- Inductance measured using Coilcraft SMD-A fixture in Agilent/HP 4286A impedance analyzer with Coilcraft supplied correlation pieces.
- Q measured at 50 MHz on Agilent/HP 4291 with Agilent/HP 16193 test fixture.
- SRF measured using Agilent/HP 8753D network analyzer and Coilcraft SMD-D test fixture.
- DCR measured on a Keithley 580 micro-ohmmeter and Coilcraft CCF840 test fixture.
- Current that causes the specified temperature rise from 25°C ambient.
- Ambient temperature range:** -40°C to +105°C with Irms current
+105°C to +145°C with derated current
- Storage temperature range:** Component: -55°C to +145°C
Packaging: -55°C to +80°C
- Resistance to soldering heat:** Three cycles at +260°C max. Each cycle is for a maximum of 40 seconds, allowing parts to cool to room temperature between.
- Electrical specifications at 25°C.

See Qualification Standards section for environmental and test data. Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

Coilcraft®

Specifications subject to change without notice.

Please check our website for latest information. Document 552-1 Revised 04/20/07

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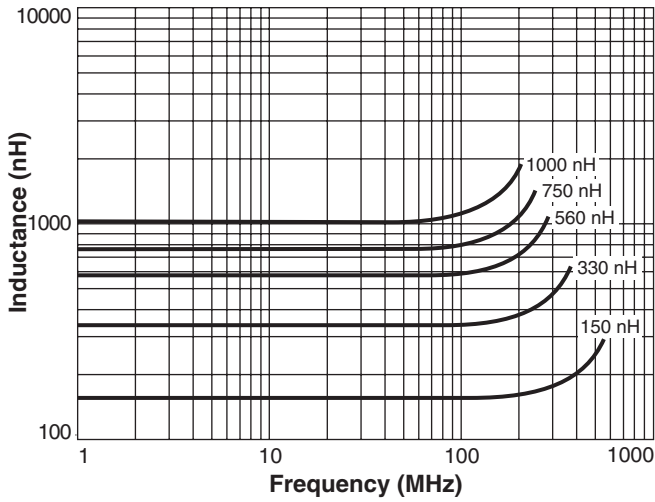
E-mail info@coilcraft.com Web <http://www.coilcraft.com>

PRELIMINARY

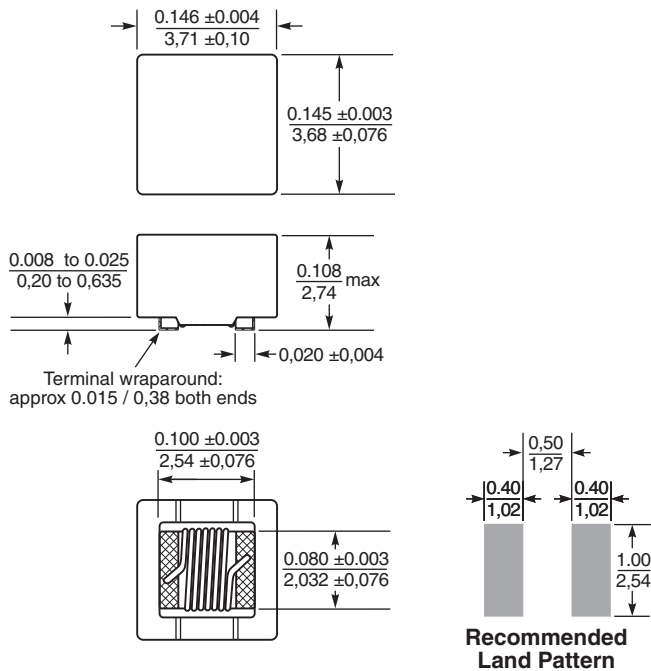
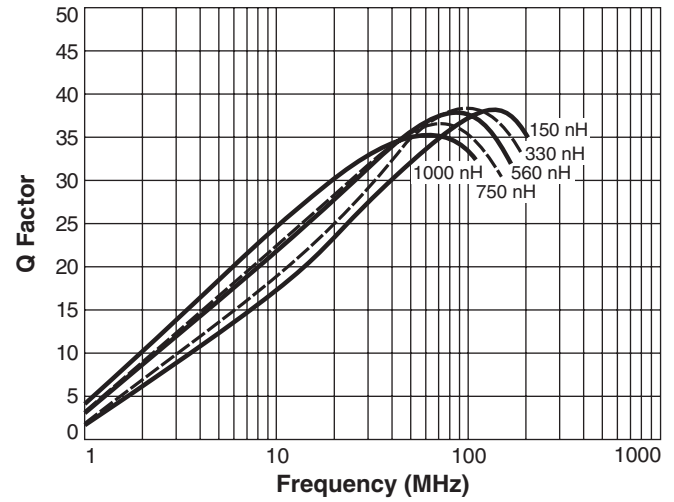


Filter Inductors - 1008FC Series

Typical L vs Frequency



Typical Q vs Frequency



Tape and reel: 750/7" reel; 2500/13" reel 12 mm tape width



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