

Low Profile Mini SpringTM Inductors



Part number ¹ Turns	L² (nH)	% tol ³	Q ² min	SRF min ⁴ (GHz)	DCR max⁵ (mOhm)	Irms ⁶ (A)	Wt (mg)
1508-5N5_L_ 3	5.5	5,2	115	5.0	2.6	4.0	52
1508-9N0_L_ 4	9.0	5,2	120	4.0	3.4	4.0	65
1508-13N_L_ 5	13.0	5,2	100	3.0	3.9	4.0	78
2508-16N_L_ 7	16.0	5,2	110	3.0	5.2	4.0	110
2508-18N_L_ 8	18.0	5,2	110	2.9	6.0	4.0	118
2508-23N_L_ 9	23.0	5,2	110	2.6	6.8	4.0	133
2508-27N_L_ 10	27.0	5,2	110	2.3	7.9	4.0	147

1. Specify tolerance, termination and packaging codes:

2508-27NJLC

2500-27 NJLC

- Tolerance: G = 2% J = 5%Termination: L = RoHS compliant tin-silver (96.5/3.5) over copper. 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 (1000 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 (3500 parts per full reel).
- 2. L and Q measured at 250 MHz, 0.1 Vrms, 0 A using an Agilent/HP
- 4291A impedance analyzer with an Agilent/HP 16193A test fixture.
- 3. Tolerances in bold are stocked for immediate shipment.
- 4. SRF measured using an Agilent/HP 8753 network analyzer and a Coilcraft SMD-D test fixture.
- 5. DCR measured using a micro-ohmmeter.
- 6. Current that causes a 15°C temperature rise from 25°C ambient.
- 7. Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



 US
 +1-847-639-6400
 sales@coilcraft.com

 UK
 +44-1236-730595
 sales@coilcraft-europe.com

 Taiwan
 +886-2-2264
 3646
 sales@coilcraft.com.tw

 China
 +86-21-6218
 8074
 sales@coilcraft.com.cn

 Singapore
 + 65-6484
 8412
 sales@coilcraft.com.sg

Only 2 mm tall

- High Q over a wide range of frequencies
- · Low DCR and excellent current handling capability

Designer's Kit C394 contains 10 samples each 5% part Designer's Kit C394-2 contains 10 samples each 2% part Terminations RoHS compliant tin-silver over copper. Other terminations available at additional cost.

Weight 48 - 130 g

Ambient temperature -40° C to $+125^{\circ}$ C with Irms current, $+125^{\circ}$ C to $+140^{\circ}$ C with derated current

Storage temperature Component: -40° C to $+140^{\circ}$ C. Packaging: -40° C to $+80^{\circ}$ C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles Temperature Coefficient of Inductance (TCL) +5 to +70 ppm/°C Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

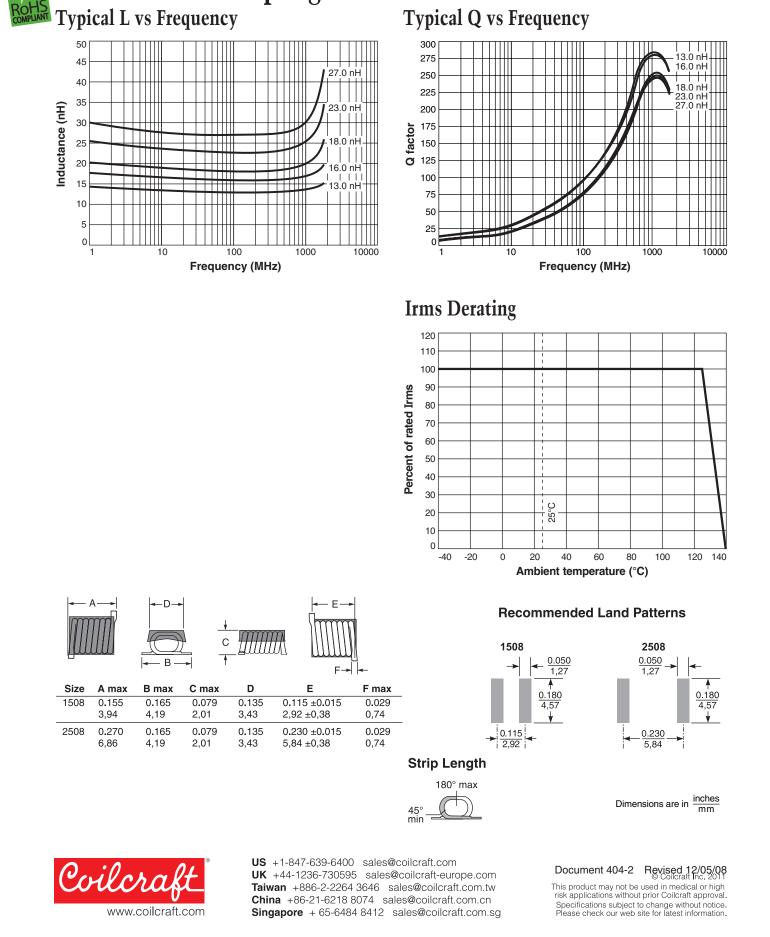
Failures in Time (FIT) / Mean Time Between Failures (MTBF) One per billion hours / one billion hours, calculated per Telcordia SR-332 Packaging 1000/7"reel; 3500/13" reel Plastic tape: 2 mm wide, 0.23 mm thick, 8 mm pocket spacing, 2.2 mm pocket depth PCB washing Only pure water or alcohol recommended



ON OUR WEB SITE

Document 404-1 Revised 10/03/11

© Coilcraft Inc. 2011 This product may not be used in medical or high risk applications without prior Coilcraft approval. Specifications subject to change without notice. Please check our web site for latest information.



Low Profile Mini Spring[™] Inductors