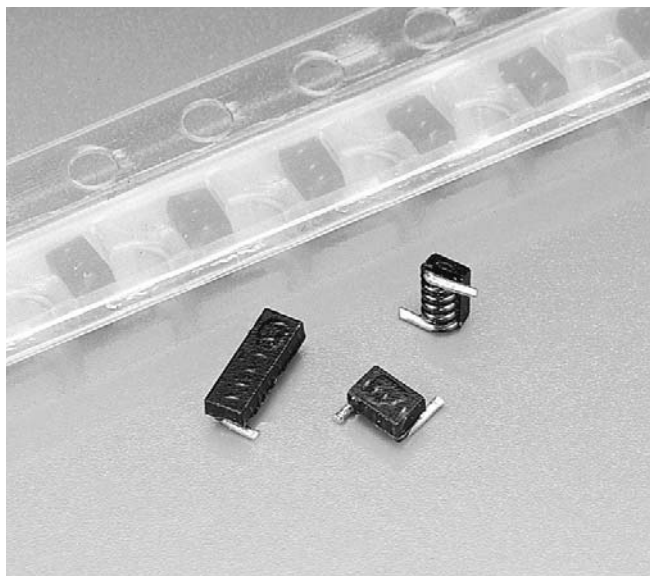




Micro Spring™ Air Core Inductors



The world's smallest surface mount air core inductors, these components provide exceptionally high Q over a wide range of frequencies. They feature tight inductance tolerance and thermal stability, which can often eliminate the need for circuit tuning.

Coilcraft's Micro Spring™ inductors are tape and reel packaged and have an acrylic jacket with a flat top, making them suitable for automatic placement and reflow or vapor phase processing. The leads are solder coated to ensure reliable soldering.

Coilcraft **Designer's Kit C308** contains samples of all 5% inductance tolerance parts. Kits with 2% tolerance are also available. To order, contact Coilcraft or visit <http://order.coilcraft.com>.

Part number ¹	Turns	Inductance ² (nH)	Percent tolerance ³	Q ⁴ min	Test freq. (MHz)	SRF min ⁵ (GHz)	DCR max ⁶ (mOhm)	Irms ⁶ (A)
0906-2KL_	2	1.65	10	100	800	10.0	4.0	1.6
0906-3JL_	3	2.55	5	100	800	8.2	5.0	1.6
0906-4_L_	4	3.85	5,2	100	800	7.5	6.0	1.6
0906-5_L_	5	5.40	5,2	100	800	7.0	8.0	1.6
1606-6_L_	6	5.60	5,2	100	800	6.5	9.0	1.6
1606-7_L_	7	7.15	5,2	100	800	6.0	10	1.6
1606-8_L_	8	8.80	5,2	100	800	6.0	12	1.6
1606-9_L_	9	9.85	5,2	100	800	5.2	13	1.6
1606-10_L_	10	12.55	5,2	100	800	4.6	14	1.6

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

$\begin{array}{c} \text{1606-10 G L C} \\ \text{---|---|---} \\ \text{---|---|---} \end{array}$

Tolerance: G = 2% J = 5% K = 10% (Table shows stock tolerances in bold.)

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, 500 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.

2. Inductance measured using Agilent/HP 4286 with Coilcraft SMD-A fixture and correlation.

3. Tolerances in bold are stocked for immediate shipment.

4. Q measured using Agilent/HP 4291A with Agilent/HP 16193A test fixture.

5. SRF measured using Agilent/HP 8720D with Coilcraft SMD-D test fixture.

6. DCR tested on the Cambridge Technology Model 510 Micro-ohmmeter.

7. Current that causes a 15°C temperature rise from 25°C ambient.

8. **Ambient temperature range:** -40°C to +125°C with Irms current +125°C to +140°C with derated current

9. **Storage temperature range:** Component: -40°C to +140°C Packaging: -55°C to +80°C

10. **Resistance to soldering heat:** Three reflows at >217°C for 90 seconds (+260°C ±5°C for 20 – 40 seconds), allowing parts to cool to room temperature between.

11. Electrical specifications at 25°C.

12. Temperature coefficient of inductance: +5 to +70 ppm/°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 163-1 Revised 10/03/07

1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469

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

