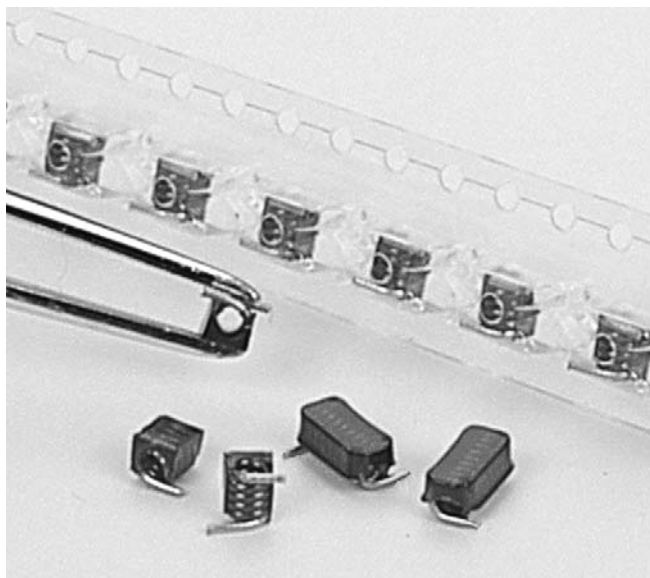




Mini Spring™ Air Core Inductors



These surface mount air core “spring” inductors provide extremely high Q over a wide frequency range.

They’re jacketed with a high temperature material that ensures mechanical stability and very tight tolerance. It also forms a flat top, making them suitable for automatic placement and reflow or vapor phase processing. Solder coated leads ensure reliable soldering.

Coilcraft Mini Spring™ inductors are available in standard EIA tape and reel packaging: 12 mm for size A, and 16 mm for size B parts.

Coilcraft **Designer’s Kit C102** 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 ⁵ min (GHz)	DCR ⁶ max (mOhm)	I _{rms} ⁷ (A)	Weight (mg)
A01T_	1	2.5	10	145	150	12.5	1.1	4	31
A02T_	2	5.0	10,5,2	140	150	6.5	1.8	4	42
A03T_	3	8.0	5,2	140	150	5.0	2.6	4	52
A04T_	4	12.5	5,2	137	150	3.3	3.4	4	65
A05T_	5	18.5	5,2	132	150	2.5	3.9	4	78
B06T_	6	17.5	5,2	100	150	2.2	4.5	4	100
B07T_	7	22.0	5,2	102	150	2.1	5.2	4	110
B08T_	8	28.0	5,2	105	150	1.8	6.0	4	118
B09T_	9	35.5	5,2	112	150	1.5	6.8	4	133
B10T_	10	43.0	5,2	106	150	1.2	7.9	4	147

1. When ordering, please specify **tolerance** code:

A02T**G**

Tolerance: G = 2% J = 5% K = 10%

- Inductance measured using Agilent/HP 4286 with Coilcraft SMD-A fixture and correlation.
- Tolerances in bold are stocked for immediate shipment.
- Q measured using Agilent/HP 4291A with Agilent/HP 16193A test fixture.
- SRF tested on the Agilent/HP 8720D and the SMD-D test fixture.
- DCR tested on the Cambridge Technology Model 510 Micro-ohmmeter.
- Average current for a 15°C rise above 25°C ambient.
- Operating temperature range -40°C to +125°C.
- Electrical specifications at 25°C.

See Qualification Standards section for environmental and test data

Coilcraft®

Specifications subject to change without notice.

Please check our website for latest information. Document 107-1 Revised 01/30/03

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

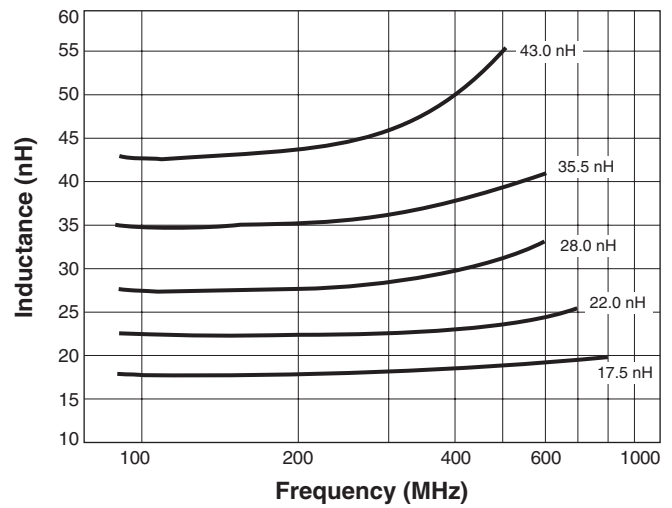
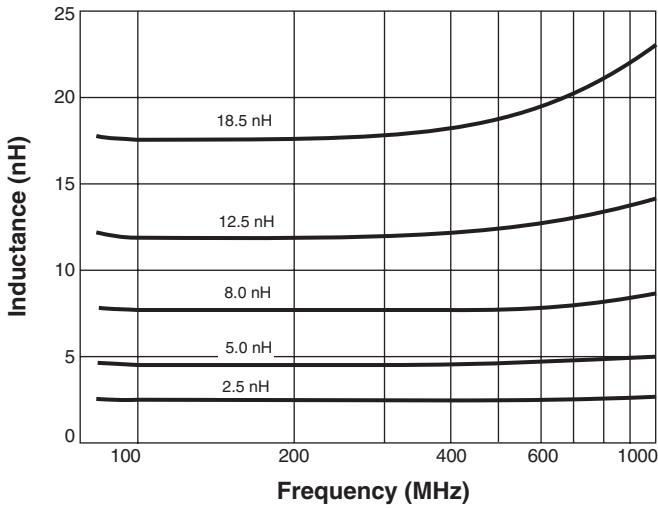
E-mail info@coilcraft.com Web <http://www.coilcraft.com>



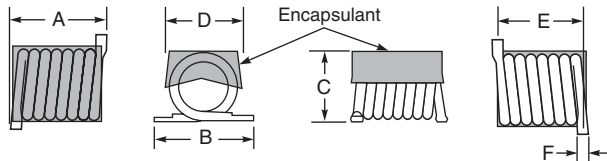
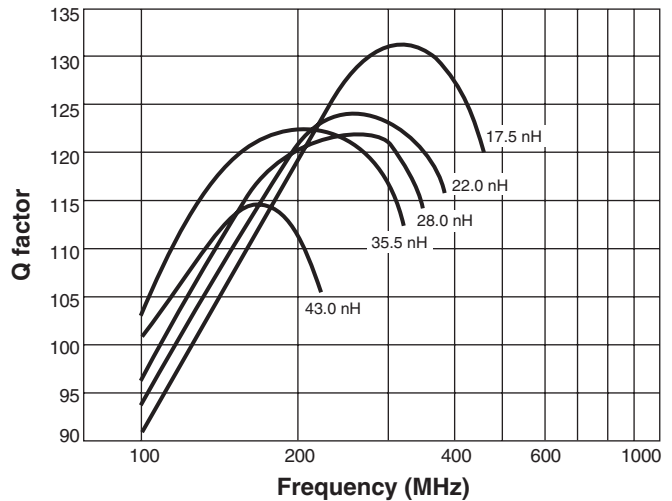
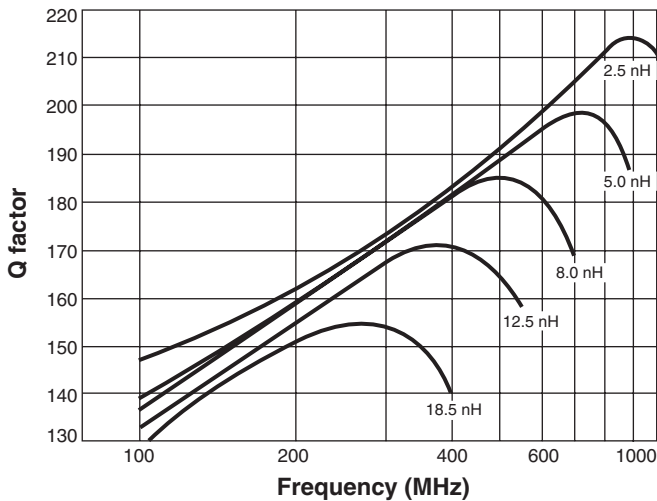
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S-Parameter files
ON OUR WEB SITE OR CD
SPICE models
ON OUR WEB SITE OR CD

Typical L vs Frequency

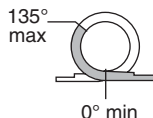


Typical Q vs Frequency

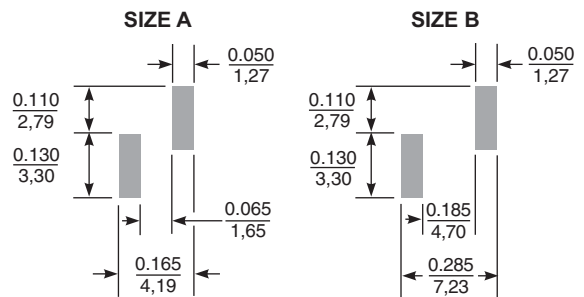


Size	A max	B max	C max	D	E	F max
A	0.155 3,94	0.175 4,45	0.124 3,15	0.125 ±0.010 3,18 ±0,25	0.115 ±0.010 2,92 ±0,25	0.029 0,74
B	0.270 6,86	0.175 4,45	0.124 3,15	0.125 ±0.010 3,18 ±0,25	0.230 ±0.015 5,84 ±0,38	0.029 0,74

Strip Length



Recommended Land Patterns



Tape and reel: 700/7" reel; 2500/13" reel 12 mm tape width 500/7" reel; 2200/13" reel 16 mm tape width

For packaging data see Tape and Reel Specifications section.

Terminations: Tin/lead over copper



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Please check our website for latest information. Document 107-2 Revised 03/14/05

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