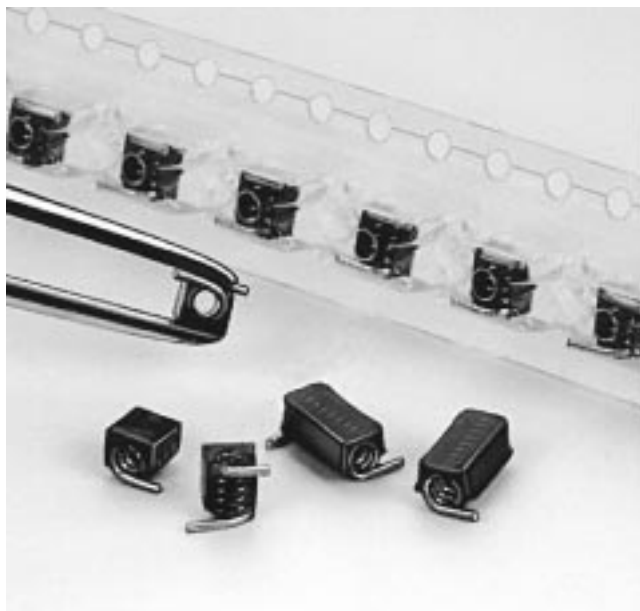


Mini Spring™ Air Core Inductors



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

They're jacketed with a high temperature material which assures mechanical stability and very close tolerance. It also forms a flat top, making them suitable for automatic placement and reflow or vapor phase processing. Tinned leads assure 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.

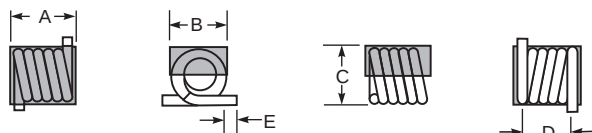
Designer's Kit C102 contains samples of all the standard parts shown. To order, contact Coilcraft or visit <http://order.coilcraft.com>.

Specifications

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 _{DC} ⁷ Max (A)
A01T_	1	2.5	10	145	150	12.5	1.1	4
A02T_	2	5.0	10,5	140	150	6.5	1.8	4
A03T_	3	8.0	5,2	140	150	5.0	2.6	4
A04T_	4	12.5	5,2	137	150	3.3	3.4	4
A05T_	5	18.5	5,2	132	150	2.5	3.9	4
B06T_	6	17.5	5,2	100	150	2.2	4.5	4
B07T_	7	22.0	5,2	102	150	2.1	5.2	4
B08T_	8	28.0	5,2	105	150	1.8	6.0	4
B09T_	9	35.5	5,2	112	150	1.5	6.8	4
B10T_	10	43.0	5,2	106	150	1.2	7.9	4

For environmental data see “Spring Inductors—Product Specifications” (Document 182).

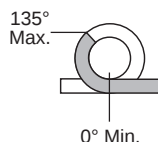
1. When ordering, please add number to specify inductance tolerance: **G**=2%, **J**=5%, **K**=10%.
2. Inductance measured using HP4286 with Coilcraft SMD-A fixture and correlation.
3. Tolerances in bold are stocked for immediate shipment.
4. Q measured using HP4291A with HP16193A test fixture.
5. SRF measured using HP8753D with Coilcraft SMD-D test fixture.
6. DCR tested on the Cambridge Technology Model 510 Micro-ohmmeter.
7. For 15°C temperature rise.
8. Operating temperature -40°C to +125°C.
9. Electrical specifications at 25°C.



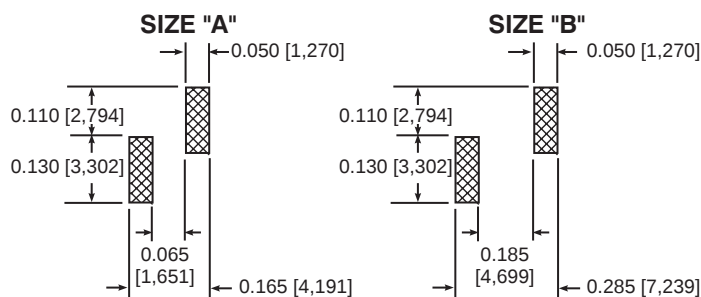
Size	A	B	C	D	E
A	.145 3.68	.120 3.05	.125 3.18	.115 ± .010 2.92 ± 0.25	.023 ± .015 0.58 ± 0.38
B	.270 6.86	.120 3.05	.125 3.18	.230 ± .015 5.84 ± 0.25	.023 ± .015 0.58 ± 0.38

COILCRAFT ACCURATE
PRECISION REPEATABLE
MEASUREMENTS
DOC. 126 **TEST FIXTURES**

Strip Length



Typical Land Patterns



Parts/reel: 7" 700; 13" 2,500
Tape width: 12 mm

Parts/reel: 7" 500; 13" 2,200
Tape width: 16 mm

For packaging data see “Tape and Reel Specifications” (Document 173)

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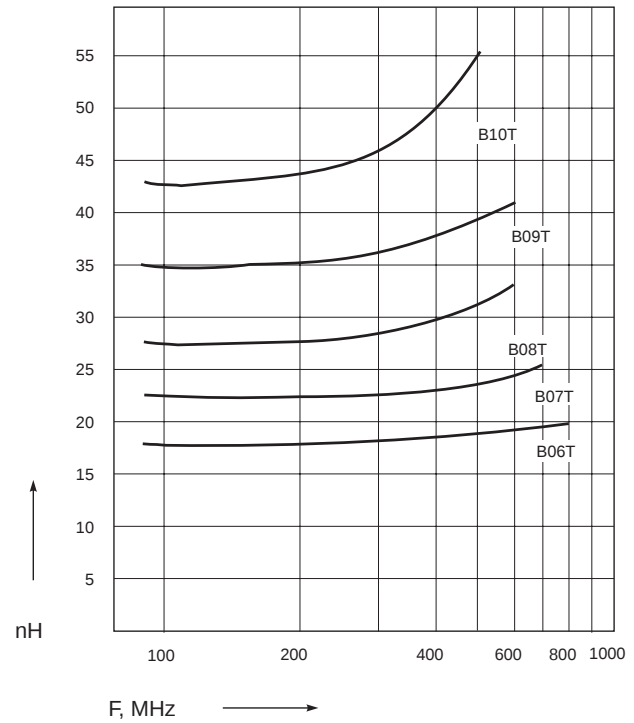
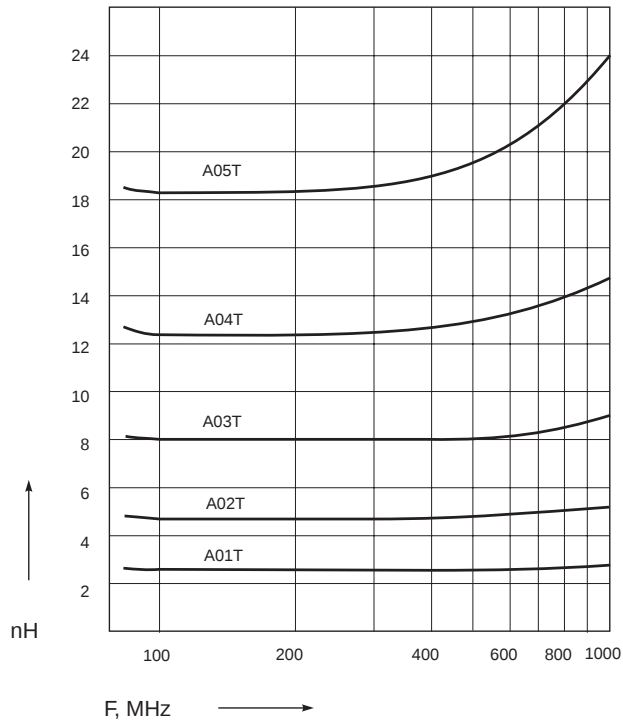
Specifications subject to change without notice. Document 107-1 Revised 8/26/99

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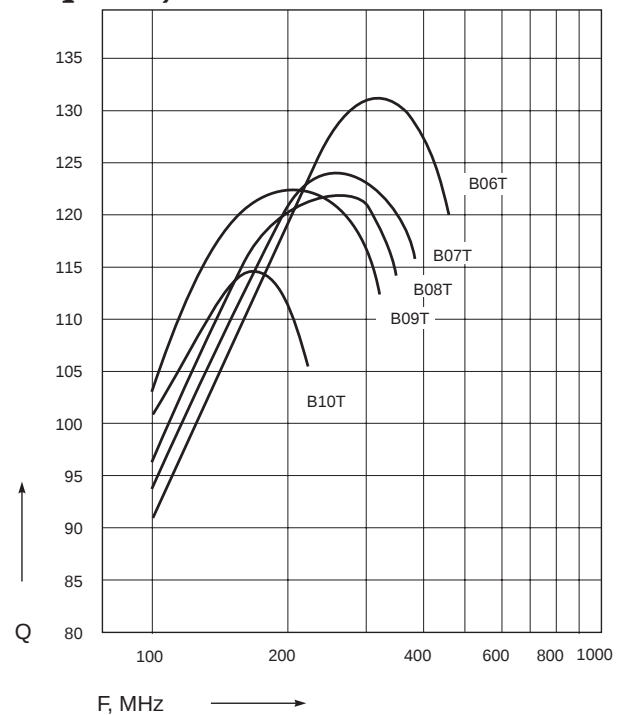
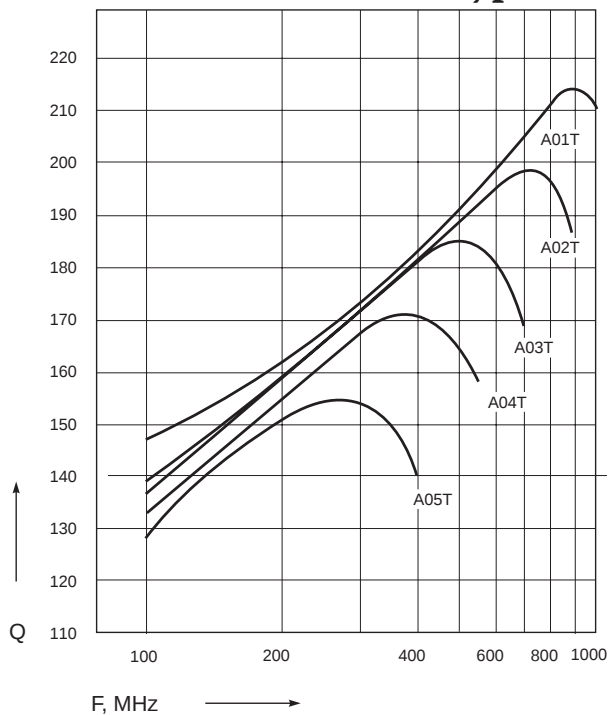
Mini Spring™ Air Core Inductors

S-Parameter files
ON OUR WEB SITE OR CD
PSPICE models
SEE DOC 158

Typical L vs Frequency



Typical Q vs Frequency



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Specifications subject to change without notice. Document 107-2 Revised 8/26/99

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