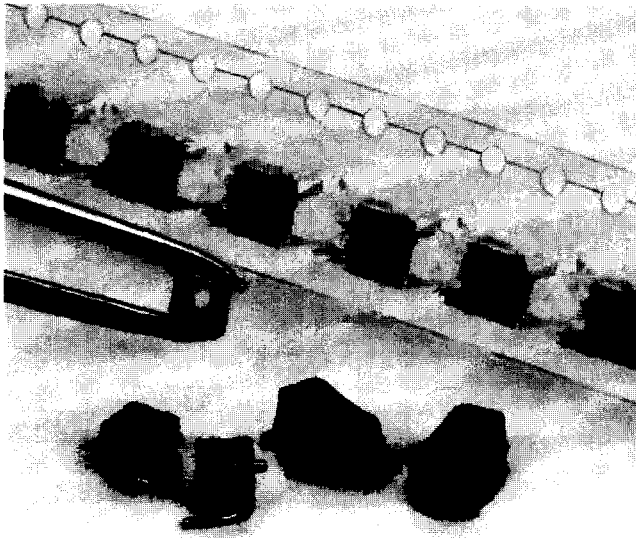


# "Mini Spring" Air Core Inductors



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 SMD spring inductors are available in standard EIA tape and reel packaging: 12 mm for size A, and 16 mm for size B parts.

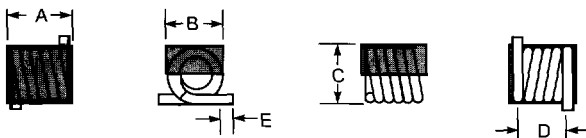
**Designer's Kit C102** contains samples of all the standard parts shown. To order, contact Coilcraft.

## Specifications

Part Number <sup>1</sup>	Turns	Inductance <sup>2</sup> (nH)	Percent Tolerance <sup>3</sup>	Q <sup>4</sup> Min	Test Freq. (MHz)	SRF <sup>5</sup> Min (GHz)	DCR <sup>6</sup> Max (mOhm)	I <sub>DC</sub> <sup>7</sup> Max (A)
A01T-	1	2.5	<b>10</b>	145	150	>3	1.1	4
A02T-	2	5.0	<b>10,5</b>	140	150	>3	1.8	4
A03T-	3	8.0	<b>5,2</b>	140	150	>3	2.6	4
A04T-	4	12.5	<b>5,2</b>	137	150	>3	3.4	4
A05T-	5	18.5	<b>5,2</b>	132	150	>3	3.9	4
B06T-	6	17.5	<b>5,2</b>	100	150	>3	4.5	4
B07T-	7	22.0	<b>5,2</b>	102	150	>3	5.2	4
B08T-	8	28.0	<b>5,2</b>	105	150	2.6	6.0	4
B09T-	9	35.5	<b>5,2</b>	112	150	1.8	6.8	4
B10T-	10	43.0	<b>5,2</b>	106	150	1.5	7.9	4

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

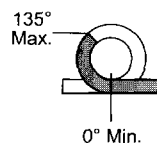
- When ordering, please add number to specify inductance tolerance: **-10**=10%, **-5**=5%, **-2**=2%.
- Inductance measured using HP4286 with Coilcraft SMD-A fixture and correlation.
- Tolerances in bold are stocked for immediate shipment.
- Q measured using HP4291A with HP16193A test fixture.
- SRF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



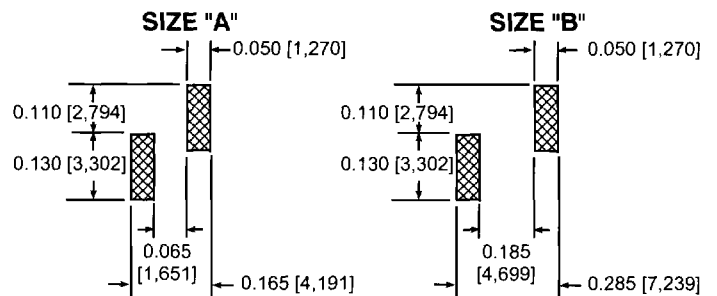
Size	A	B	C	D	E
A	.145 3.68	.120 3.05	.125 3.18	.115 ± .010 2.92 ± 0.25	.023 ± .015 0.58 ± 0.38
B	.270 6.86	.120 3.05	.125 3.18	.230 ± .015 5.84 ± 0.25	.023 ± .015 0.58 ± 0.38

**COILCRAFT** ACCURATE  
PRECISION REPEATABLE  
MEASUREMENTS  
PAGE 129 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)

# Coilcraft

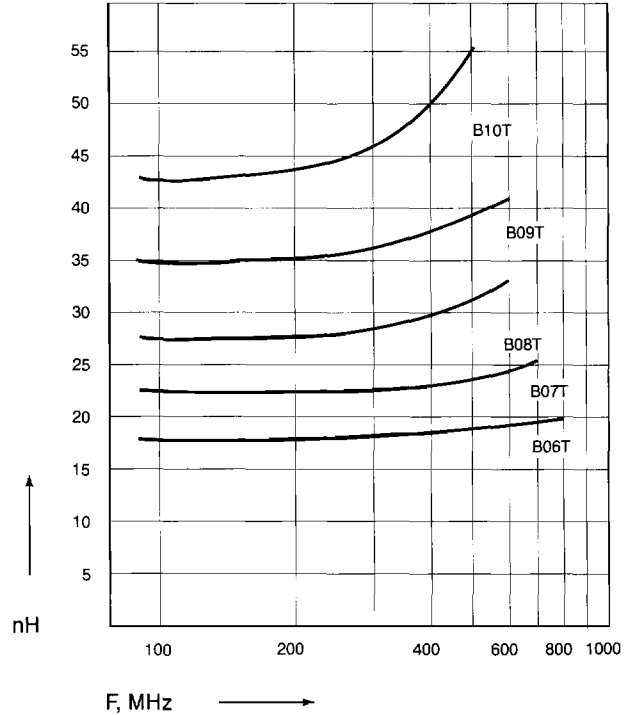
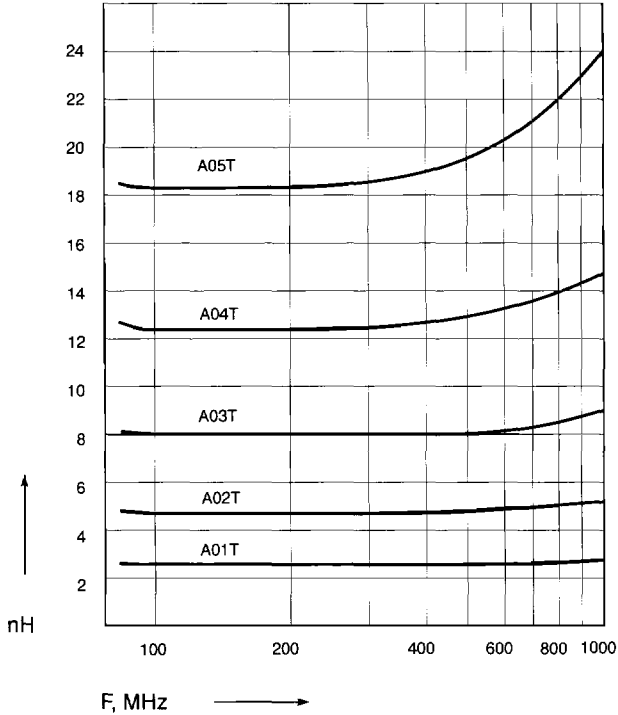
Specifications subject to change without notice. Document 107-1 Revised 11/19/97

1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469  
E-mail info@coilcraft.com Data by Fax 800/651-6974 Web http://www.coilcraft.com

# "Mini Spring" Air Core Inductors



## Typical L vs Frequency



## Typical Q vs Frequency

