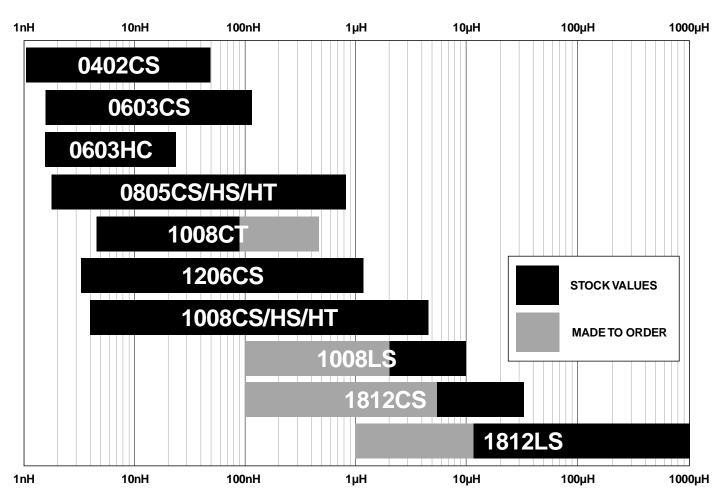
# **Chip Inductor Selection Guide**



Use this chart to determine which family provides the inductance you need. Follow these tips to select the best combination of low cost, close tolerance and high self resonance.

### Try our CS families first

These offer the best overall combination of low cost, close tolerance, and high self resonant frequency.

### **High frequency applications**

Series ending in CS, CT, HQ, HS, or HT use a ceramic core. They have the highest self resonant frequencies in the industry. And they're free from the batch-to-batch variations in inductance, SRF and Q that are typical of ferrite inductors.

#### **Close tolerance applications**

Because of their ceramic coil forms, we are able to produce 0805CS, 1008CS, and 1206CS inductors to 1% or 2% tolerance very economically. This can often eliminate the need for variable components in tuned circuits and oscillators.

#### Small footprint/low profile

For maximum space saving, try our 0402CS or 0603CS Series, our smallest wirewound inductors. Or if you need a low-profile part, use our 0805HT parts, which measure only .035"/0,89 mm high.

#### Highest possible Q

Among our ceramic chip inductors, the 0805HQ and 1008HQ Series

offer the highest Q factors. For even higher ratings, consider our air wound "Springs". You get all the convenience of a surface mount part, plus Q values of 200 at 1.8 GHz and inductance tolerance as low as 2%!

#### High current

The 0603HC, 0805HQ and 1008HQ Series provide the highest current carrying capability.

#### **Custom values**

We also welcome the opportunity to provide parts tailored to your needs. For technical assistance, call +1-847-639-6400 (US) or +44-1236-730595 (UK).

Coilcraft

Specifications subject to change without notice. Document 120 Revised 4/9/01

# **SMT Power Inductor Selection Guide**

UNSHIELDED INDUCTORS			Inc	luctance/Isat
LPO1704 Series         1.00 mm high           1.2 μH         330 μH           2.1 A         0.13 A		DO3340 Series	11.43 mm high                       10 µН 8 А	1,000 µН 0.8 А
LPO2506 Series 1.19 mm high	1,000 µН 0.1 А	DO5022 Series	7.11 mm high 1 μH 20 A	1,000 µН 1 А
DO1606 Series 2.0 mm high 1 μH 2.5 A	1,000 μH 0.08 A	DO5022HC Serie	es 8.00 mm high 0.78 μH 15 μH 30 A 8 A	
DO1608 Series 2.92 mm high 	1,000 µН 0.1 А			
DO1813HC Series         5.00 mm high           0.56μH         47μH           7.7 A         0.87A				
DO3308 Series 3.00 mm high	1,000 μH 0.1 A			
DO3316 Series 5.21 mm high	1,000 µН 0.3 А			
DO3316HC Series 6.35 mm high 0.33 4.7 μH 20 A 5.4 A				
All parts shown actual size				

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Inductance/Isat

1 6.8 mH 0.1 0.04 A

10 mH

0.01 A

## **SMT Power Inductor Selection Guide**

SHIELDED IN	DUCTORS Induc	ctance/Isat	BACKLIGHT I	NDUCTORS
1008PS Series	2.6 mm high		DO1607BL Series	2.49 mm high
-	1 µН 3 А	1,000 μΗ 0.1 Α	۲	1 6.8 0.1 0.0
DS1608 Series	2.92 mm high		DS1608BL Series	2.92 mm high
æ	1 μH 3 A	10,000 µН 0.02 А		0.1 mH 1 0.22 A (
DT1608 Series	2.92 mm high			
æ	1 µН 2 А	1,000 μΗ 0.08 Α		
DS3316 Series	5.08 mm high			
e,	1 μΗ 47 μΗ 5.6 A 1 A			
DT3316 Series	5.08 mm high			
	1 µН 5 А	1,000 μΗ 0.25 Α		
DS5022 Series	7.62 mm high	1,000 µН 0.8 А		
All parts shown actua	al size			



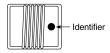
Specifications subject to change without notice. Document 176-2 Revised 4/25/01

# **Color Coding**

## **Chip Inductors**

### 0603 and 0805 Series

Because of their small size, these parts are marked with a single color dot. The inductance value represented by the dot is shown on the data sheet for each series.



#### 1008, 1206 and 1812 Series

These parts are marked with three color dots. The table below shows the significance of each color.

Dots 1 and 2 indicate the inductance in nanoHenries

Dot 3 is a multiplier showing the number of added zeroes

<b>0</b> = Black <b>1</b> = Brown <b>2</b> = Red <b>3</b> = Orange <b>4</b> = Yellow	<b>5</b> = Green <b>6</b> = Blue <b>7</b> = Violet <b>8</b> = Gray <b>9</b> = White		1st Multiplier
Examples:			
Gray Red Bl	ack	=	82 nH
Brown Red I	Brown	=	120 nH
Yellow Viole	t Red	=	4700 nH

On values below 10 nH, the third dot is not a multiplier. Refer to the tables below for the specific inductance values represented by the color dots.

### **1008CT Series**

Black Yellow Black Black Gray Black	4.7 nH 8.2 nH	1008CT-040X_BC 1008CT-080X_BC
<b>1008HT Series</b> Black Orange Black Black Blue Black Black Violet Black	3.3 nH 6.8 nH 7.2 nH	1008HT-3N3T_BC 1008HT-6N8T_BC 1008HT-7N2T_BC
1008HQ Series Black Orange Black Black Yellow Black Black Violet Black	3.0 nH 4.1 nH 7.8 nH	1008HQ-3N0T_BC 1008HQ-4N1T_BC 1008HQ-7N8T_BC
<b>1206CS Series</b> Black Orange Black Black Blue Black	3.3 nH 6.8 nH	1206CS-030T_BC 1206CS-060T_BC

Coilcraft

Specifications subject to change without notice. Document 174 Revised 11/22/99

## **SMD** Power Inductors

Most Coilcraft SMD power inductors are marked with three color dots. The table below shows the significance of each color.

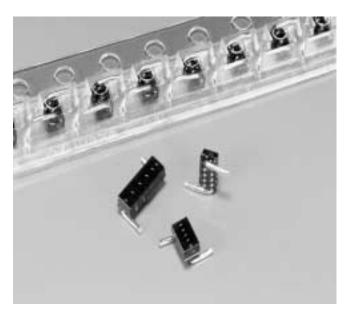
Dots 1 and 2 indicate the inductance in nanoHenries.

Dot 3 is a multiplier showing the number of added zeroes

<b>0</b> = Black	<b>5</b> = Green	1st
<b>1</b> = Brown	<b>6</b> = Blue	digit
<b>2</b> = Red	<b>7</b> = Violet	2nd
<b>3</b> = Orange	<b>8</b> = Gray	digit
<b>4</b> = Yellow	<b>9</b> = White	Multiplier
Examples:		

Examples.		
Yellow Violet Yellow	=	470 µH
Brown Green Orange	=	15 µH
Blue Grey Brown	=	680 nH

# Micro Spring<sup>™</sup> 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<sup>™</sup> 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 tinned to ensure reliable soldering.

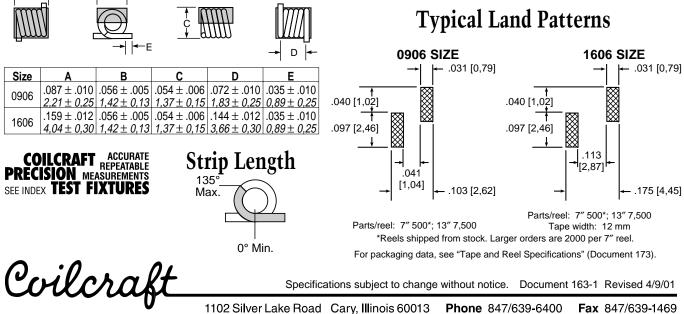
**Designer's Kit C108** contains samples of all 5% inductance tolerance parts. Kits with 2% tolerance are also available. To order, contact Coilcraft or visit http://order.coilcraft.com.

### **Specifications**

Part Number <sup>1</sup>	lı Turns	nductance <sup>2</sup> (nH)	Percent Tolerance <sup>3</sup>	Q⁴ Min	Test Freq. (MHz)	SRF⁵ Min (GHz)	DCR <sup>6</sup> Max (mOhm)	I <sub>DC</sub> <sup>7</sup> Max (A)
0906-2_	2	1.65	10	100	800	10.0	4.0	1.6
0906-3_	3	2.55	10, <b>5</b>	100	800	8.2	5.0	1.6
0906-4_	4	3.85	10, <b>5,2</b>	100	800	7.5	6.0	1.6
0906-5_	5	5.40	5,2	100	800	7.0	8.0	1.6
1606-6_	6	5.60	5,2	100	800	6.5	9.0	1.6
1606-7	7	7.15	5,2	100	800	6.0	10	1.6
1606-8_	8	8.80	5,2	100	800	6.0	12	1.6
1606-9_	9	9.85	5,2	100	800	5.2	13	1.6
1606-10_	10	12.55	5,2	100	800	4.6	14	1.6

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

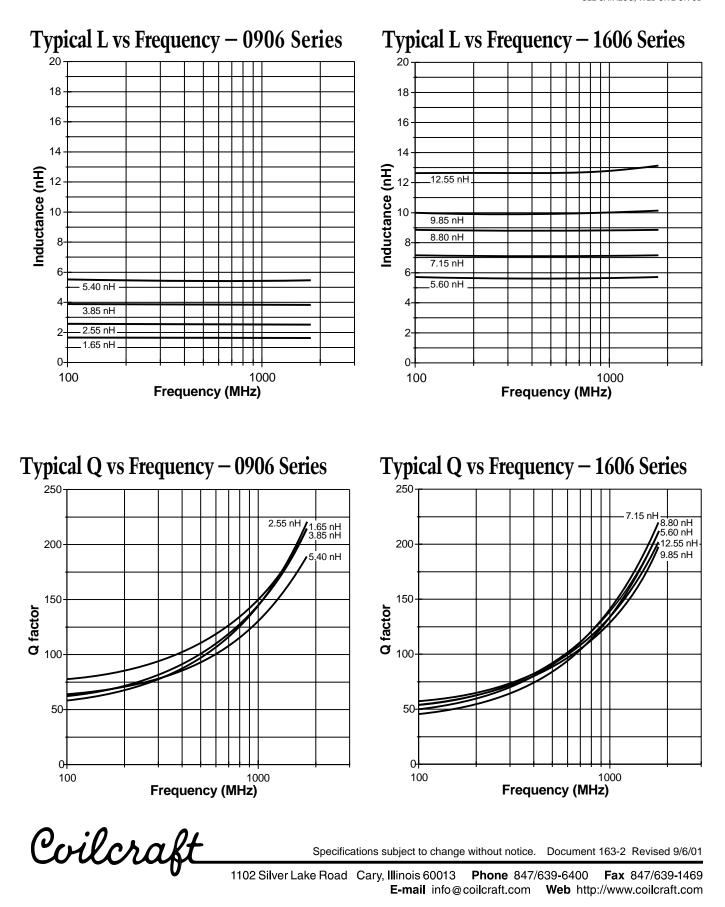
- 1. When ordering, please add letter to specify inductance tolerance: G=2%, J=5%, K=10%.
- 2. Inductance measured using Agilent/HP4286 with Coilcraft SMD-A fixture and correlation.
- 3. Tolerances in bold are stocked for immediate shipment.
- 4. Q measured using Agilent/HP4291A with Agilent/HP16193A test fixture.
- SRF measured using Agilent/HP8720D with Coilcraft SMD-D test fixture.
   DCR tested on the Cambridge Technology Model
- DCR tested on the Cambridge Technology Model 510 Micro-ohmmeter.
- 7. For 15° C temperature rise.
- 8. Operating temperature range  $-40^\circ\,C$  to  $+125^\circ\,C.$
- 9. Electrical specifications at 25° C.



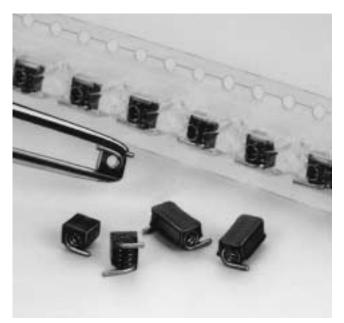
**E-mail** info@coilcraft.com Web http://www.coilcraft.com

## Micro Spring<sup>™</sup> Air Core Inductors

S-Parameter files on our web site or cd PSpice models see CATALOG, web site or cd



# Mini Spring<sup>™</sup> 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 ensures 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 ensure reliable soldering.

Coilcraft Mini Spring<sup>™</sup> 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 5% inductance tolerance parts. Kits with 2% tolerance are also available. To order, contact Coilcraft or visit http://order.coilcraft.com.

### **Specifications**

Part Number <sup>1</sup>	Turns	Inductance <sup>2</sup> (nH)	Percent Tolerance <sup>3</sup>	Q⁴ Min	Test Freq. (MHz)	SRF⁵ Min (GHz)	DCR <sup>6</sup> Max (mOhm)	I <sub>DC</sub> <sup>7</sup> Max (A)	<ul> <li>For environmental data, see "Spring Inductors—Product Specifications" (Document 182).</li> <li>1. When ordering, please add number to specify inductance tolerance: G=2%, J=5%, K=10%.</li> </ul>
A01T_	1	2.5	10	145	150	12.5	1.1	4	2. Inductance measured using Agilent/HP4286 with
A02T_	2	5.0	10, <b>5</b>	140	150	6.5	1.8	4	Coilcraft SMD-A fixture and correlation.
A03T_	3	8.0	5,2	140	150	5.0	2.6	4	3. Tolerances in bold are stocked for immediate ship-
A04T_	4	12.5	5,2	137	150	3.3	3.4	4	ment. 4. Q measured using Agilent/HP4291A with
A05T_	5	18.5	5,2	132	150	2.5	3.9	4	Agilent/HP16193A test fixture.
B06T_	6	17.5	5,2	100	150	2.2	4.5	4	<ol> <li>SRF measured using Agilent/HP8720D with Collcraft SMD-D test fixture.</li> </ol>
B07T	7	22.0	5,2	102	150	2.1	5.2	4	<ol> <li>DCR tested on the Cambridge Technology Model</li> </ol>
B08T_	8	28.0	5,2	105	150	1.8	6.0	4	510 Micro-ohmmeter.
B09T	9	35.5	5,2	112	150	1.5	6.8	4	<ol><li>For 15° C temperature rise.</li></ol>
B10T_	10	43.0	5,2	106	150	1.2	7.9	4	<ol> <li>Operating temperature -40° C to +125° C.</li> <li>Electrical specifications at 25° C.</li> </ol>

**Typical Land Patterns** SIZE "A" SIZE "B" D -0.050 [1,270] 0.050 [1,270] Size В С D Е Α .145 .120 .125  $.115 \pm .010$  $.023 \pm .015$ 0.110 [2.794] 0 110 [2 794] А  $2,92 \pm 0,25$ 3,68 3,05 3,18  $0,58 \pm 0,38$ .120 .125  $.230\pm.015$  $.023\pm.015$ .270 0.130 [3,302] В 0.130 [3.302] 6.86 3.05 3,18  $5,84 \pm 0,25$  $0.58 \pm 0.38$ COILCRAFT ACCURATE REPEATABLE PRECISION MEASUREMENTS Strip Length 0.065 0.185 [1,651] [4,699] 135° Max. 0.165 [4,191] 0.285 [7,239] SEE INDEX TEST FIXTURES Parts/reel: 7" 700; 13" 2,500 Parts/reel: 7" 500; 13" 2,200 Tape width: 12 mm Tape width: 16 mm For packaging data, see "Tape and Reel Specifications" (Document 173). 0° Min. Coilcraft Specifications subject to change without notice. Document 107-1 Revised 4/9/01

**S-Parameter files** ON OUR WEB SITE OR CD **PSpice models** CATALOG, WEB SITE OR CD

SEE

## Mini Spring<sup>™</sup> Air Core Inductors

24 55 22 50 43.0 nH 20 45 18.5 nH 18 40 35.5 nH 16 35 14 30 12.5 nH 12 28.0 nH 25 22.0 nH 10 8.0 nH 20 8 17.5 nH 15 6 5.0 nH 10 4 2.5 nH 5 2 nΗ nΗ 100 200 400 600 800 1000 100 200 400 600 800 1000 F, MHz F, MHz Typical Q vs Frequency 220 135 210 130 2.5 nH 200 125 17.5 nH 190 120 5.0 nH 1 22.0 nH 180 115 28.0 nH 35.5 nH 170 110 8.0 nH 160 105 43.0 nH 12.5 nH 150 100 140 95 18.5 nH 130 90 120 85 Q Q 110 80 800 1000 800 1000 100 200 400 600 100 200 400 600 F, MHz F, MHz Coilcraft Specifications subject to change without notice. Document 107-2 Revised 4/9/01

## **Typical L vs Frequency**

# Midi Spring<sup>™</sup> Air Core Inductors



This family of surface mount Midi Spring<sup>™</sup> inductors is designed for higher current applications (up to 3.5 Amps) than our smaller series. It also provides higher Q factors at lower frequencies.

Like all Coilcraft "spring" inductors, these parts provide the advantages of an air core inductor in a package optimized for auto placement. The top of the coil is capped with acrylic, forming a flat surface and assuring mechanical stability. The leads are tinned for reliable soldering.

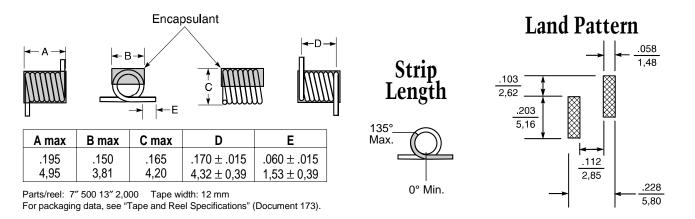
**Designer's Kit C118** contains samples of all 5% inductance tolerance parts. Kits with 2% tolerance are also available. To order, contact Coilcraft or visit http://order.coilcraft.com.

Specificati	lons				Test	SRF⁴	DCR <sup>5</sup>	I <sub>DC</sub> <sup>6</sup>	
Part Number <sup>1</sup>	Inductance (nH)	<sup>2</sup> Percent Tolerance <sup>3</sup>	Q² Typ	Q² Min	Freq. (MHz)	Min (GHz)	Max (mOhm)	Max (A)	l
1812SMS-22N	22	5,2	135	100	150	3.2	4.2	3.0	
1812SMS-27N_	. 27	5,2	135	100	150	2.7	4.0	3.5	
1812SMS-33N	33	5,2	130	100	150	2.5	4.8	3.0	
1812SMS-39N	39	5,2	135	100	150	2.1	4.4	3.0	
1812SMS-47N	47	5,2	135	100	150	2.1	5.6	3.0	
1812SMS-56N	56	5,2	125	100	150	1.5	6.2	3.0	•
1812SMS-68N_	68	5,2	120	100	150	1.5	8.2	2.5	
1812SMS-82N	82	5,2	120	100	150	1.3	9.4	2.5	
1812SMS-R10	100	5,2	115	100	150	1.2	12.3	1.7	
1812SMS-R12	120	5,2	125	100	150	1.1	17.3	1.5	-



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

- When ordering, please add letter to specify inductance tolerance: J=5%, G=2%.
- Inductance and Q tested on the Agilent/HP4291A with the 16193 fixture and correlation.
- Tolerances in bold are stocked for immediate shipment.
- 4. SRF tested on the Agilent/HP8753D and the SMD-D test fixture.
- DCR tested on the Cambridge Technology Model 510 Micro Ohmmeter.
   Ear 15° C rise
- 6. For 15° C rise
- 7. Operating temperature range –40° C to +125° C.
- 8. Electrical specifications at 25° C.

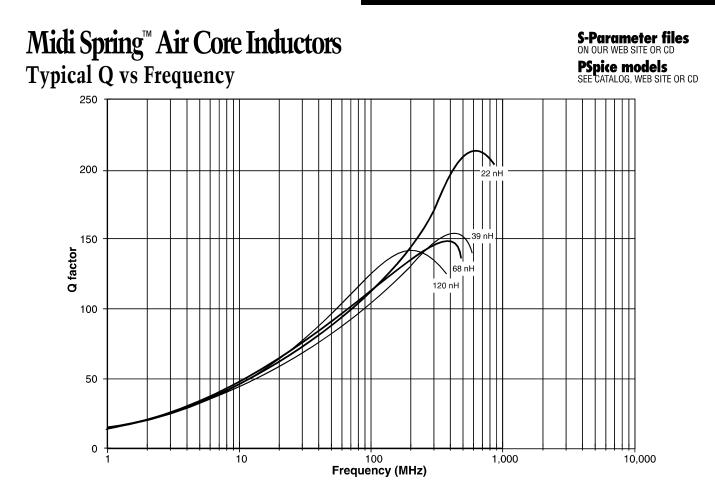


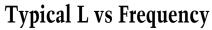
Coilcraft

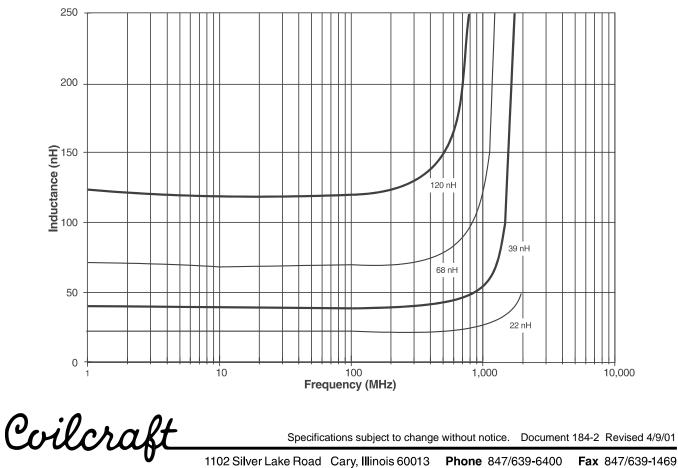
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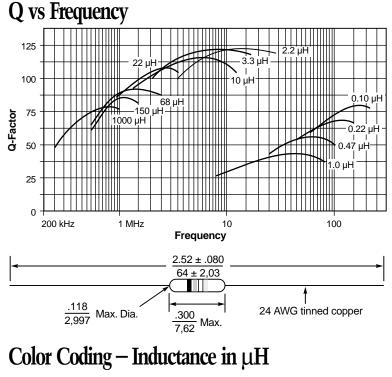
E-mail info@coilcraft.com Web http://www.coilcraft.com

# Axial Lead Chokes – 90 Series



Coilcraft's axial lead chokes are totally encapsulated in a durable epoxy coating. Their low cost compared to molded type chokes makes them particularly attractive to high volume users. Coilcraft chokes are available in the standard values listed here as well as in custom values to meet your specific requirements.

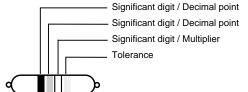
Coilcraft Designer's Kit No. F102 contains samples of 25 standard parts (all odd-numbered values). To order, please contact Coilcraft.



### Features

- No molding stress to break wire
- 10% inductance tolerance standard, 5% available
- Temperature coefficient compatible with N030-N080 capacitors through part number 90-30
- Standard EIA color coding
- Significant savings for high volume users
- Available bulk packed, in conventional tape and reel, or "ammo packs." Custom lead forming also available
- Offered in 49 standard values or in custom values

Color Coding -	-I	ndu	cta	inc	e	in	μH	



Black =	0	Blue	=	6
Brown =	1	Violet	=	7
Red =	2	Gray	=	8
Orange =	3	White	=	9
Yellow =	4		=	
Green =	5	Silver	=	10% tolerance

Note: The color gold represents a decimal point and will only appear in the 1st or 2nd stripe locations. When a gold stripe is present, there will be no multiplier. The inductance value will be as indicated in microHenries

Coilcraft

Specifications subject to change without notice. Document 115-1 Revised 7/24/01

## Axial Lead Chokes – 90 Series

Part Number	L <sup>1</sup> (µH ± 10%)	Q² Min.	Test Freq. (MHz)	DCR Max. (Ohms)	SRF Min. (MHz)	Max Current <sup>3</sup> (mA)	Core Material
90-01	0.10	38	25	0.08	680	1380	Phenolic
90-02	0.12	38	25	0.09	640	1300	Phenolic
90-03	0.15	38	25	0.11	600	1230	Phenolic
90-04	0.18	35	25	0.12	550	1120	Phenolic
90-05	0.22	33	25	0.14	510	1040	Phenolic
90-06	0.27	33	25	0.16	460	975	Phenolic
90-07	0.33	30	25	0.22	410	830	Phenolic
90-08	0.39	30	25	0.3	365	710	Phenolic
90-09	0.47	30	25	0.35	330	660	Phenolic
90-10	0.56	30	25	0.5	310	550	Phenolic
90-11	0.68	28	25	0.6	280	500	Phenolic
90-12	0.82	28	25	0.85	260	420	Phenolic
90-13	1.0	25	25	1	240	390	Phenolic
90-14	1.2	60	7.9	0.15	150	620	Ferrite
90-15	1.5	60	7.9	0.16	140	560	Ferrite
90-16	1.8	60	7.9	0.2	125	480	Ferrite
90-17	2.2	60	7.9	0.29	115	415	Ferrite
90-18	2.7	50	7.9	0.4	100	355	Ferrite
90-19	3.3	50	7.9	0.42	90	285	Ferrite
90-20	3.9	50	7.9	0.6	80	263	Ferrite
90-21	4.7	40	7.9	0.66	60	239	Ferrite
90-22	5.6	40	7.9	0.7	45	195	Ferrite
90-23	6.8	40	7.9	0.9	40	185	Ferrite
90-24	8.2	40	7.9	1	28	160	Ferrite
90-25	10	35	7.9	1.1	24	144	Ferrite
90-26	12	60	2.5	1.62	20	160	Ferrite
90-27	15	60	2.5	1.75	17	157	Ferrite
90-28	18	60	2.5	1.85	16	149	Ferrite
90-29	22	50	2.5	2	14	144	Ferrite
90-30	27	50	2.5	2.1	12	140	Ferrite
90-31	33	50	2.5	2.2	10	130	Ferrite
90-32	39	50	2.5	2.3	9.5	125	Ferrite
90-33	47	50	2.5	2.4	9	110	Ferrite
90-34	56	50	2.5	3	7.8	100	Ferrite
90-35	68	50	2.5	3.4	7	92	Ferrite
90-36	82	50	2.5	3.8	6.7	88	Ferrite
90-37	100	50	2.5	4.1	6.1	84	Ferrite
90-38	120	60	0.79	6.5	4.8	66	Ferrite
90-39	150	60	0.79	8.3	4.1	61	Ferrite
90-40	180	60	0.79	8.9	4	57	Ferrite
90-41	220	60	0.79	10.1	3.6	52	Ferrite
90-42	270	60	0.79	11	3.3	47	Ferrite
90-43	330	60	0.79	12.4	3.1	45	Ferrite
90-44	390	60	0.79	13.6	2.9	40	Ferrite
90-45	470	60	0.79	18.4	2.4	36	Ferrite
90-46	560	60	0.79	20.3	2.2	35	Ferrite
90-47	680	60	0.79	22.3	2	30	Ferrite
	000	60	0.79	25	1.9	20	E a suite a
90-48	820	60 60	0.79	25 27.4	1.9	29	Ferrite

NOTES: 1. Inductance measured with a Coilcraft

AXL-A test fixture and Agilent/HP4192/4286 Impedance Analyzers.

2. Q measured on Agilent/HP4192/4286 with AXL-A, direct-connected to Agilent/HP4342 Q-Meter.

3. Temperature rise at rated current and

90° C ambient .10 – 1.0 μH: 35° C 1.2 – 1000 μH: 15° C

4. Operating temperature range .10 – 1.0 μH: –40° C to +125° C 1.2 – 1000 μH: –40° C to +105° C

5. Electrical specifications at 25° C.

6. Color coding per MIL-C-15305C

7. Epoxy coating: flame resistant 94 VO

8. Designed to meet requirements of Military Specifications MS75083, MS75084 and MS75085.



Coilcraft

Specifications subject to change without notice. Document 115-2 Revised 4/22/01

## Power Inductors – DC1012 Series



These power inductors are especially effective as DC-DC converter boost or buck inductors and as output ripple filter chokes in all types of downsized switching power supplies.

They are ideal for applications requiring small size, cost effective power inductors. The vertical style helps reduce power supply size by saving crucial printed circuit board area. The large inductance available per size makes these parts ideal for all sorts of energy storage, smoothing, and EMI reduction applications.

The Coilcraft DC1012 Series includes a wide range of EIA standard inductance values. Custom versions are also available.

Coilcraft **Designer's Kit P210** contains three samples of all the standard parts shown. To order, contact Coilcraft.

### **Specifications**

Part Number	Inductance <sup>1</sup> 10% μΗ	DCR Max (Ω)	Current Rating <sup>2</sup> (Amps)	
DC1012-103	10	.026	3.5	
DC1012-123	12	.030	3.2	
DC1012-153	15	.035	3.0	
DC1012-183	18	.038	2.8	
DC1012-223	22	.046	2.5	
DC1012-273	27	.070	2.2	
DC1012-333	33	.080	2.0	
DC1012-393	39	.088	1.8	
DC1012-473	47	.100	1.6	
DC1012-563	56	.15	1.4	
DC1012-683	68	.17	1.2	
DC1012-823	82	.20	1.2	
DC1012-104	100	.22	1.2	
DC1012-124	120	.29	1.0	
DC1012-154	150	.34	.9	
DC1012-184	180	.38	.8	
DC1012-224	220	.44	.7	
DC1012-274	270	.62	.7	
DC1012-334	330	.70	.6	

1. Tested at 100 kHz, .1 Vrms.

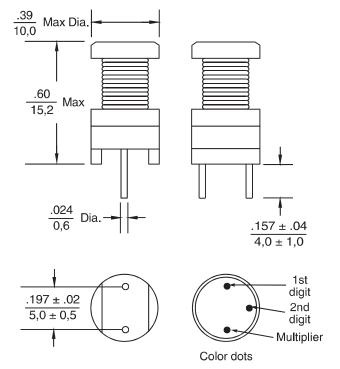
2. Current rating is based on  $I^2 R$  loss = 3/8 Watt Max. Inductance drop is 10% typ. at the rated current.

3. Operating temperature range –40° C to +85° C.

4. Electrical specifications at 25° C.

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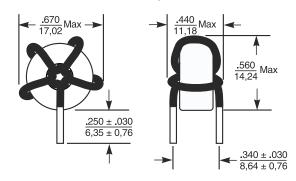
Specifications subject to change without notice. Document 147 Revised 9/14/00



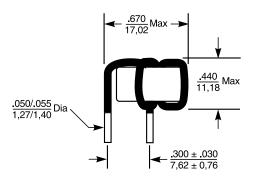
# Self Leaded Power Inductors – HCT Series



### **Dimensions - Vertical Style**



### **Dimensions - Horizontal Style**



This low cost toroidal inductor is designed for high current, low voltage applications, particularly the latest generation of low voltage microprocessors.

The toroid core offers compact size with minimal external magnetic fields.

This part can be provided in either vertical or horizontal mounting style. Custom versions can be readily obtained in addition to the standard parts shown

For free evaluation samples, please contact Coilcraft.

Part number	Mounting style	Inductance (µH) ±10%	DCR max (Ohms)	I sat² (A)	Current max <sup>3</sup> (A)
HCT-1-152-15		1.5	.0021	15	15
HCT-2-152-15		1.5	.0021	15	15

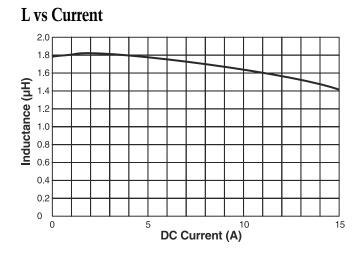
1. Inductance tested at 0.1 Vrms, 100 kHz, with DC bias applied to the rated current.

2. Inductance drop = 10% typ. at Isat

3.  $\Delta T = 40^{\circ}$  C rise typ. at the rated current.

4. Operating temperature -40° C to +85°C.

5. Specifications at 25° C.



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