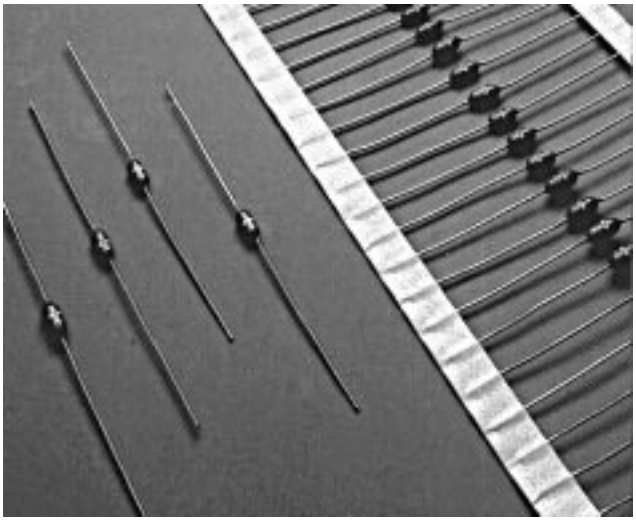
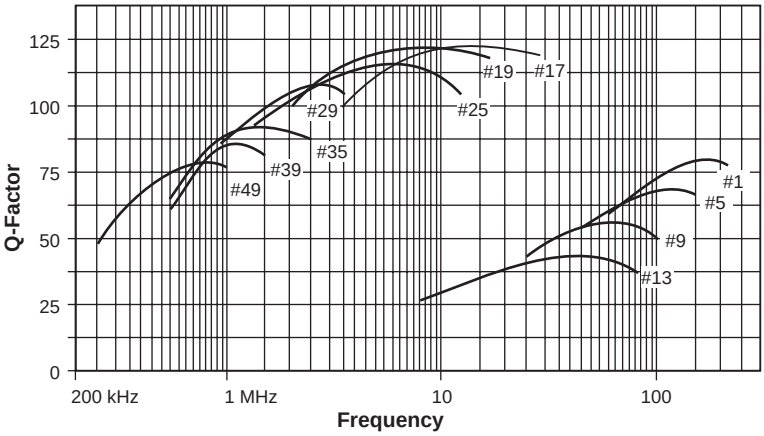
Axial Lead Chokes – 90 Series

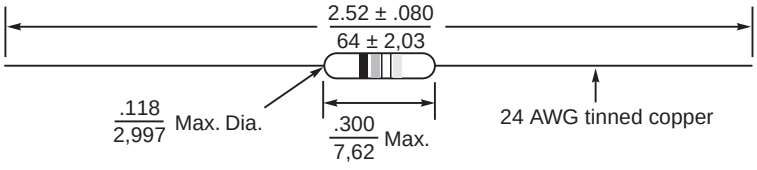


Coilcraft's axial lead chokes are totally encapsulated in a durable epoxy coating. Their low cost compared to molded type chokes makes them particularly attractive to high volume users. Coilcraft chokes are available in the standard values listed here as well as in custom values to meet your specific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

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

Q vs Frequency

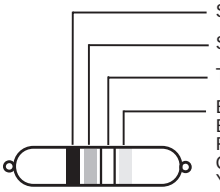




Features

- 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 – Inductance in µH



Black	=	0	Blue	=	6
Brown	=	1	Violet	=	7
Red	=	2	Grey	=	8
Orange	=	3	White	=	9
Yellow	=	4	Gold	=	Decimal point
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.

1102 Silver Lake Road Cary, Illinois 60013 **Phone** 847/639-6400 **Fax** 847/639-1469
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Axial Lead Chokes – 90 Series

Part Number	L (uH ± 10%)	Q Min.	Test Freq. (MHz)	DCR Max. (Ohms)	SRF Min. (MHz)	Max Current (mA)
90-01	0.10	38	25	0.08	680	1380
90-02	0.12	38	25	0.09	640	1300
90-03	0.15	38	25	0.11	600	1230
90-04	0.18	35	25	0.12	550	1120
90-05	0.22	33	25	0.14	510	1040
90-06	0.27	33	25	0.16	460	975
90-07	0.33	30	25	0.22	410	830
90-08	0.39	30	25	0.3	365	710
90-09	0.47	30	25	0.35	330	660
90-10	0.56	30	25	0.5	310	550
90-11	0.68	28	25	0.6	280	500
90-12	0.82	28	25	0.85	260	420
90-13	1.0	25	25	1	240	390
90-14	1.2	60	7.9	0.15	150	620
90-15	1.5	60	7.9	0.16	140	560
90-16	1.8	60	7.9	0.2	125	480
90-17	2.2	60	7.9	0.29	115	415
90-18	2.7	50	7.9	0.4	100	355
90-19	3.3	50	7.9	0.42	90	285
90-20	3.9	50	7.9	0.6	80	263
90-21	4.7	40	7.9	0.66	60	239
90-22	5.6	40	7.9	0.7	45	195
90-23	6.8	40	7.9	0.9	40	185
90-24	8.2	40	7.9	1	28	160
90-25	10	35	7.9	1.1	24	144
90-26	12	60	2.5	1.62	20	160
90-27	15	60	2.5	1.75	17	157
90-28	18	60	2.5	1.85	16	149
90-29	22	50	2.5	2	14	144
90-30	27	50	2.5	2.1	12	140
90-31	33	50	2.5	2.2	10	130
90-32	39	50	2.5	2.3	9.5	125
90-33	47	50	2.5	2.4	9	110
90-34	56	50	2.5	3	7.8	100
90-35	68	50	2.5	3.4	7	92
90-36	82	50	2.5	3.8	6.7	88
90-37	100	50	2.5	4.1	6.1	84
90-38	120	60	0.79	6.5	4.8	66
90-39	150	60	0.79	8.3	4.1	61
90-40	180	60	0.79	8.9	4	57
90-41	220	60	0.79	10.1	3.6	52
90-42	270	60	0.79	11	3.3	47
90-43	330	60	0.79	12.4	3.1	45
90-44	390	60	0.79	13.6	2.9	40
90-45	470	60	0.79	18.4	2.4	36
90-46	560	60	0.79	20.3	2.2	35
90-47	680	60	0.79	22.3	2	30
90-48	820	60	0.79	25	1.9	29
90-49	1000	60	0.79	27.4	1.8	28

NOTES:

1) Inductance measured with a Coilcraft AXL-A test fixture and HP4192/4286 Impedance Analyzers.
2) Q measured on HP4192/4286 with AXL-A, direct-connected to HP4342 Q-Meter.
3) Temperature rise at rated current and 90°C ambient
   .10 - 1.0 uH: 35°C
   1.2 - 1000 uH: 15°C
4) Maximum operating temperature
   .10 - 1.0 uH: 125°C
   1.2 - 1000 uH: 105°C
5) Color coding per MIL-C-15305C
6) Epoxy coating: flame resistant 94 VO
7) Designed to meet requirements of Military Specifications MS75083, MS75084 and MS75085.

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