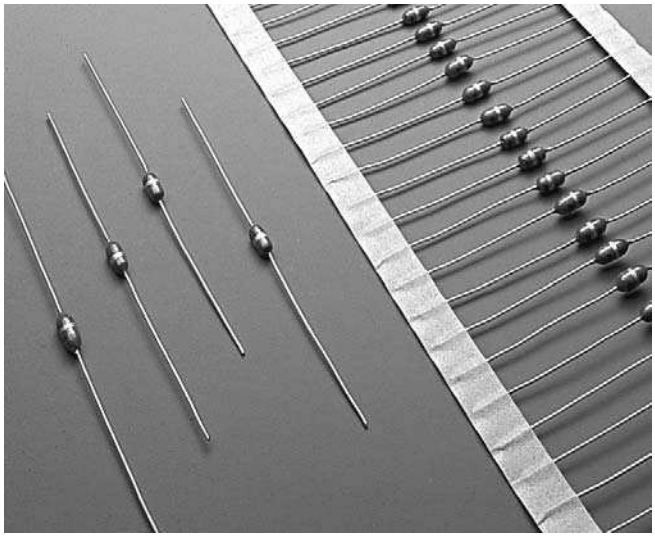
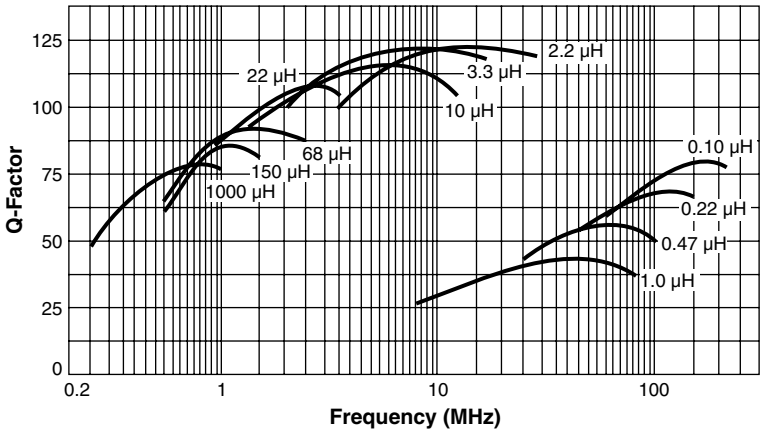
Axial Lead Chokes – 90 Series

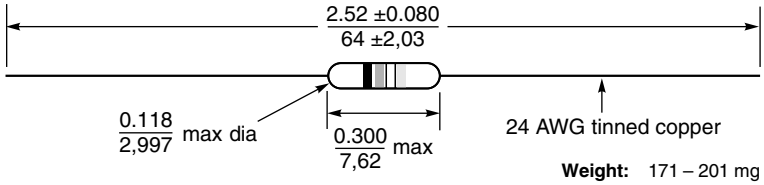


This series was discontinued on December 31, 2006. An RoHS-compliant version will not be made.

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.

Typical Q vs Frequency



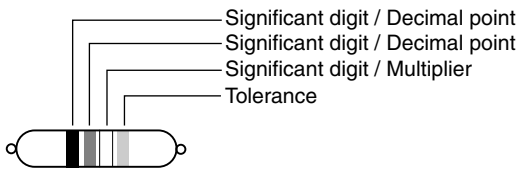


Weight: 171 – 201 mg

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	Violet	= 7
Brown	= 1	Gray	= 8
Red	= 2	White	= 9
Orange	= 3	Gold	= Decimal point
Yellow	= 4		
Green	= 5	Tolerance:	Silver = 10%
Blue	= 6		Gold = 5%

Notes:
A gold stripe in the 1st or 2nd location represents a decimal point. When a decimal point is used, there is no multiplier.

The inductance value indicated is in microHenries.

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Part number[1]	Inductance[2] ±10% (µH)	Q[3] min	Test freq (MHz)	DCR max (Ohms)	SRF min (MHz)	Irms[4] (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	0.30	365	710	Phenolic
90-09	0.47	30	25	0.35	330	660	Phenolic
90-10	0.56	30	25	0.50	310	550	Phenolic
90-11	0.68	28	25	0.60	280	500	Phenolic
90-12	0.82	28	25	0.85	260	420	Phenolic
90-13	1.0	25	25	1.00	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	0.20	125	480	Ferrite
90-17	2.2	60	7.9	0.29	115	415	Ferrite
90-18	2.7	50	7.9	0.40	100	355	Ferrite
90-19	3.3	50	7.9	0.42	90	285	Ferrite
90-20	3.9	50	7.9	0.60	80	263	Ferrite
90-21	4.7	40	7.9	0.66	60	239	Ferrite
90-22	5.6	40	7.9	0.70	45	195	Ferrite
90-23	6.8	40	7.9	0.90	40	185	Ferrite
90-24	8.2	40	7.9	1.00	28	160	Ferrite
90-25	10	35	7.9	1.10	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	2.0	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	9.0	110	Ferrite
90-34	56	50	2.5	3.0	7.8	100	Ferrite
90-35	68	50	2.5	3.4	7.0	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	4.0	57	Ferrite
90-41	220	60	0.79	10.1	3.6	52	Ferrite
90-42	270	60	0.79	11.0	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	2.0	30	Ferrite
90-48	820	60	0.79	25.0	1.9	29	Ferrite
90-49	1000	60	0.79	27.4	1.8	28	Ferrite

1. 5% tolerance part available as special order. Add –5 to end of the part number: e.g. 90-49-5.
2. Inductance measured with a Coilcraft AXL-A test fixture and Agilent/HP 4192/4286 Impedance Analyzers.
3. Q measured on Agilent/HP 4192/4286 with AXL-A, direct-connected to Agilent/HP 4342 Q-Meter.
4. Temperature rise at rated current and 90°C ambient
   0.10 – 1.0 µH: 35°C
   1.2 – 1000 µH: 15°C
5. Operating temperature range
   0.10 – 1.0 µH: –40°C to +125°C
   1.2 – 1000 µH: –40°C to +105°C
6. Electrical specifications at 25°C.
7. Color coding per MIL-C-15305C
8. Epoxy coating: flame resistant 94 VO
9. Designed to meet requirements of Military Specifications MS75083, MS75084 and MS75085.

COILCRAFT ACCURATE REPEATABLE PRECISION MEASUREMENTS
SEE INDEX TEST FIXTURES

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