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.

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

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

Typical Q vs Frequency

Color Coding – Inductance in μH

<table>
<thead>
<tr>
<th>Color</th>
<th>Symbol</th>
<th>Tolerance</th>
<th>Value (μH)</th>
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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.
### Axial Lead Chokes – 90 Series

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance (\pm 10%) (µH)</th>
<th>Q(^3) min</th>
<th>Test freq (MHz)</th>
<th>DCR max (Ohms)</th>
<th>SRF min (MHz)</th>
<th>Irms(^4) (mA)</th>
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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.