High Current Air Core Inductors

The use of heavy gauge wire allows these parts to have the lowest DCR and highest current ratings of our air-core inductors. They offer Q values over 100 from 100 MHz to 1 GHz.

Request free evaluation samples by contacting Coilcraft or visiting www.coilcraft.com.

### Specifications

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance (μH)</th>
<th>Q typ</th>
<th>SRF (GHz)</th>
<th>DCR max (mOhm)</th>
<th>Irms (A)</th>
<th>Wt (mg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GA3092-AL</td>
<td>3.7 ±5%</td>
<td>120</td>
<td>17.5</td>
<td>2.0</td>
<td>7.0</td>
<td>150</td>
</tr>
<tr>
<td>GA3093-AL</td>
<td>6.6</td>
<td>107</td>
<td>4.0</td>
<td>2.0</td>
<td>7.0</td>
<td>220</td>
</tr>
<tr>
<td>GA3094-AL</td>
<td>12.0</td>
<td>105</td>
<td>2.4</td>
<td>2.0</td>
<td>7.0</td>
<td>280</td>
</tr>
<tr>
<td>GA3095-AL</td>
<td>17.5</td>
<td>115</td>
<td>2.2</td>
<td>2.0</td>
<td>7.0</td>
<td>390</td>
</tr>
</tbody>
</table>

1. When ordering, please specify **packaging** code:
   - **GA3095-ALC**
   - **C** = 7" machine-ready reel. EIA-481 embossed plastic tape (750 parts per full reel).
   - **B** = Less than full reel. In tape, but not machine ready. To have a leader and trailer added ($25 charge), use code letter C instead.
   - **D** = 13" machine-ready reel. EIA-481 embossed plastic tape (1000 parts per full reel). Factory order only, not stocked.

2. L and Q measured at 150 MHz, 0.1 Vrms, 0 A using an Agilent/HP 4291A impedance analyzer with an Agilent/HP 16193A test fixture.
3. SRF measured using an Agilent/HP 8722ES network analyzer and a Coilcraft SMD-D test fixture.
4. DCR measured using a micro-ohmmeter.
5. Current that causes a 15°C temperature rise from 25°C ambient.
6. Electrical specifications at 25°C.

Refer to Doc 362 “Soldering Surface Mount Components” before soldering.

**Terminations**
RoHS compliant tin-silver (96.5/3.5) over copper

**Ambient temperature**
-40°C to +125°C with I rms current, +125°C to +140°C with derated current

**Storage temperature**
Component: –40°C to +140°C. Packaging: –40°C to +80°C

**Resistance to soldering heat**
Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

**Temperature Coefficient of Inductance (TCL)**
+5 to +70 ppm/°C

**Moisture Sensitivity Level (MSL)**
1 (unlimited floor life at <30°C / 85% relative humidity)

**Mean Time Between Failures (MTBF)**
1 billion hours

**Packaging**
250/7" reel; 1000/13" reel. Plastic tape: 16 mm wide, 0.35 mm thick, 12 mm pocket spacing, 4.9 mm pocket depth

**PCB washing**
Only pure water or alcohol recommended

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This product may not be used in medical or high risk applications without prior Coilcraft approval.
Specification subject to change without notice. Please check out our website for latest information.
High Current Air Core Inductors

L vs Frequency

Q vs Frequency

Irms Derating

Dimensions are in inches / mm

Recommended Land Patterns

Soldered lead length