



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 of 100 or greater from 150 MHz to 1 GHz.

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

| Part number ¹ | Inductance ² ±5% (nH) | Q ² typ | SRF typ ³ (GHz) | DCR max ⁴ (mOhm) | Irms ⁵ (A) | Wt (mg) |
|--------------------------|-------------------------------------|-----------------------|----------------------------------|-----------------------------------|--------------------------|------------|
| GA3092-AL_ | 3.7 | 100 | 17.5 | 2.0 | 7.0 | 150 |
| GA3093-AL_ | 6.6 | 100 | 4.0 | 2.0 | 7.0 | 220 |
| GA3094-AL_ | 12.0 | 140 | 2.4 | 2.0 | 7.0 | 280 |
| GA3095-AL_ | 17.5 | 140 | 2.2 | 2.0 | 7.0 | 390 |
| WA3096-AL_ | 22.0 | 160 | 2.6 | 2.5 | 7.0 | 470 |
| WA3097-AL_ | 30.0 | 160 | 2.0 | 3.0 | 7.0 | 570 |

1. When ordering, please specify **packaging** code:

GA3097-ALC

Packaging: C = 7" machine-ready reel. EIA-481 embossed plastic tape (250 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.

- 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.
 - SRF measured using an Agilent/HP 8722ES network analyzer and a Coilcraft SMD-D test fixture.
 - DCR measured using a micro-ohmmeter.
 - Current that causes a 15°C temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings.
 - 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 Irms current

Maximum part temperature +140°C (ambient + temp rise)

Storage temperature Component: -40°C to +140°C.
Tape and reel 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

GA3092 – GA3095 250/7" reel; 1000/13" reel Plastic tape: 16 mm wide, 0.35 mm thick, 12 mm pocket spacing, 4.9 mm pocket depth

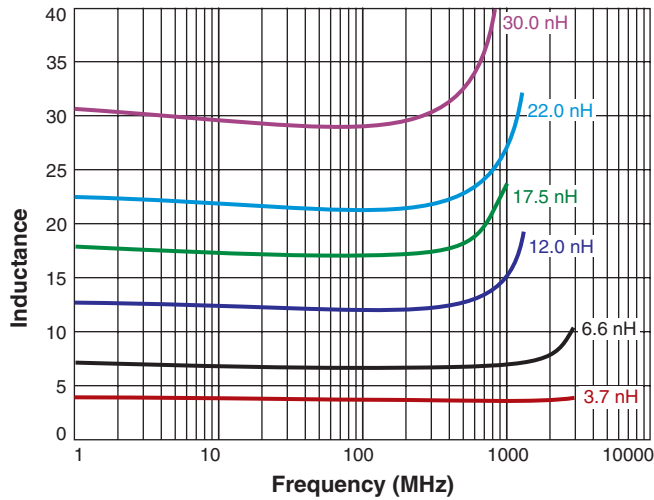
WA3096, WA3097 400/7" reel; 1500/13" reel Plastic tape: 16 mm wide, 0.5 mm thick, 16 mm pocket spacing, 5.26 mm pocket depth

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

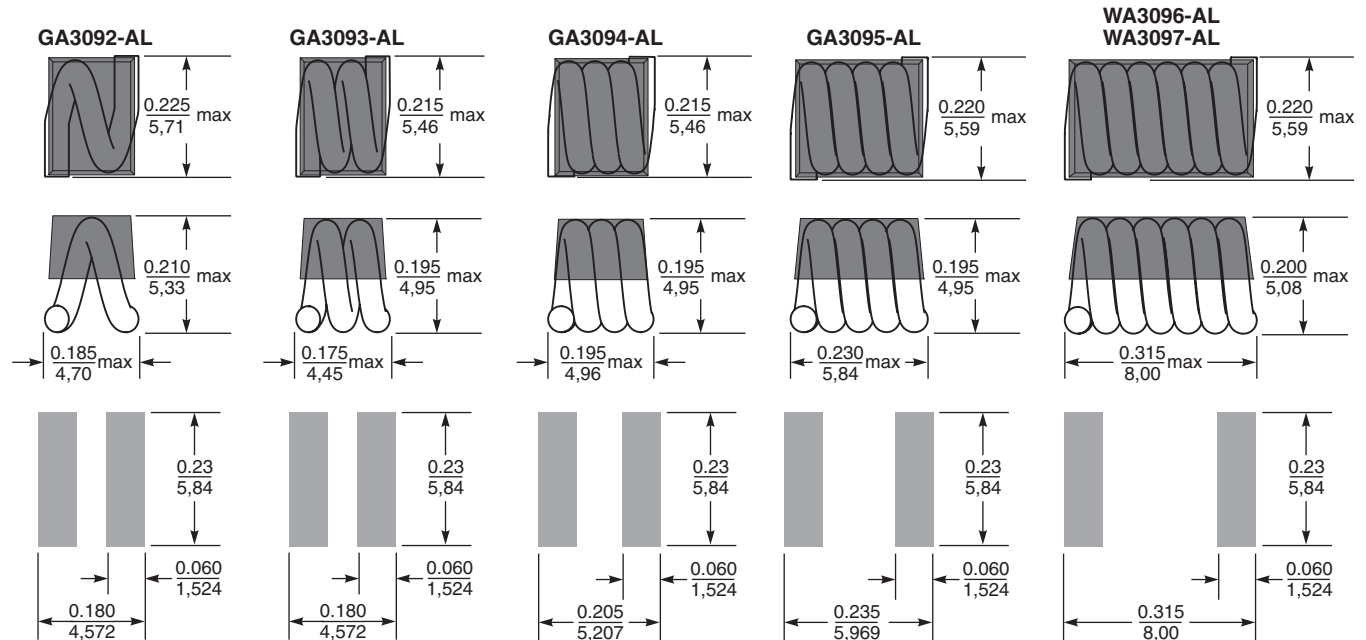
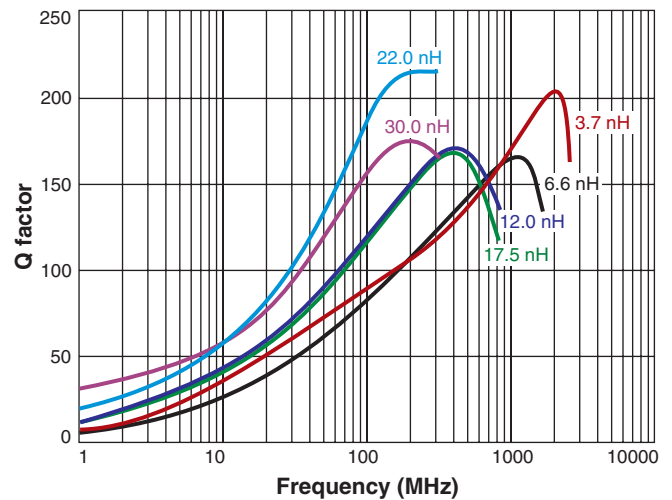


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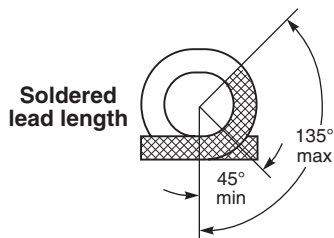
L vs Frequency



Q vs Frequency



Recommended Land Patterns



Dimensions are in $\frac{\text{inches}}{\text{mm}}$



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Document 625-2 Revised 03/13/18
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