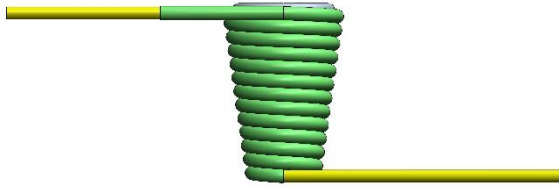
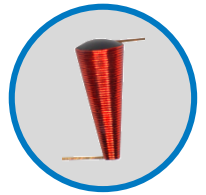




GAU Series Broadband Conical Inductor



Features

- Pure Gold Wire Conical Inductors
- Enhanced bond performance in Hybrid assembly applications.
- Performance comparable to standard conical inductors.

GAU Series Conical Inductor Specification

| Part Number | L (uH) | I max (mA) @ 90C | Upper Freq. Limit (GHz) Typ. | Return Loss (dB) Typ. | Insertion Loss (dB) Typ. | Q Typ. @ 10 MHz | DCR Typ (Ohms) | Foot Print (OD x L) Inch |
|-----------------|--------|------------------|------------------------------|-----------------------|--------------------------|-----------------|----------------|--------------------------|
| CC10T44GAU | .045 | 400 | 40 | -20 | -.35 | 8-12 | .22 | .025 x .030 |
| CC12T44GAU | .060 | 375 | 40 | -20 | -.35 | 10-15 | .25 | .025 x .035 |
| CC20T44K240GAU | .170 | - | - | - | - | 18-22 | .40 | .030 x .055 |
| CC25T47K240GAU | .250 | - | - | - | - | 10-15 | .90 | .025 x .050 |
| CC36T44K240GAU | .600 | - | - | - | - | 25-30 | .82 | .035 x .100 |
| CC45T47K240GAU | .840 | - | - | - | - | 20-25 | 2.00 | .035 x .085 |
| CC75T44K240GAU | 3.60 | 270 | 40 | -20 | -.35 | 32-36 | 2.70 | .065 x .190 |
| CC110T47K240GAU | 8.00 | 100 | 40+ | -26 | -.35 | 28-32 | 8.50 | .070 x .200 |

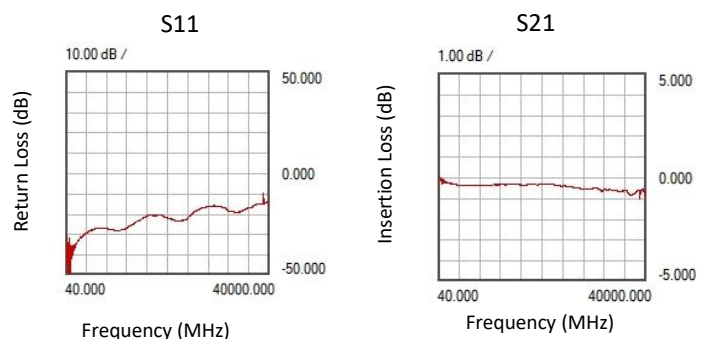
Custom conicals available upon request - Contact Piconics for more info.

S-Parameters available @ www.piconics.com

Environmental:

| | |
|-----------------|-----------------|
| Operating Temp. | -55°C to +155°C |
| Storage Temp. | -55°C to +155°C |
| RoHS Compliant | Yes |
| Outgas | Meets ASTM E595 |
| Wire Material | 99.9% AU |
| Wire Insulation | 240C Polyimide |

Frequency Response:



CC75T44K240GAU
Shunt Measurement



www.piconics.com

ISO 9001:2015

Established 1963

26 Cummings Road | Tyngsboro, MA 01879 | P: 978-649-7501 | sales@piconics.com



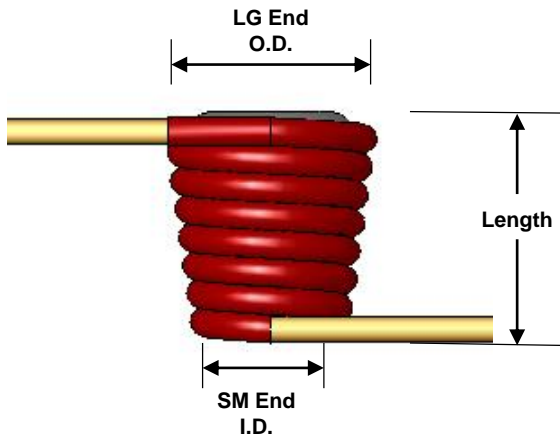
Rev A-2023

GAU Series Conical Inductor Specification

| Part Number | Turns | Wire AWG | Length Inches [mm] | LG End O.D. Inches [mm] | SM End I.D. Inches [mm] | Lead Finish | Insulation Color |
|-----------------|-------|----------|-----------------------|-------------------------------|-------------------------------|----------------|---------------------|
| CC10T44GAU | 10 | 44 | .030 [.76] | .025 [.64] | .008 [.20] | 99.9% Au | Green |
| CC12T44GAU | 12 | 44 | .035 [.89] | .025 [.64] | .008 [.20] | 99.9% Au | Green |
| CC20T44K240GAU | 20 | 44 | .055 [1.40] | .030 [.76] | .008 [.20] | 99.9% Au | Green |
| CC25T47K240GAU | 25 | 47 | .050 [1.27] | .025 [.64] | .008 [.20] | 99.9% Au | Green |
| CC36T44K240GAU | 36 | 44 | .100 [2.54] | .035 [.89] | .008 [.20] | 99.9% Au | Green |
| CC45T47K240GAU | 45 | 47 | .085 [2.16] | .035 [.89] | .008 [.20] | 99.9% Au | Green |
| CC75T44K240GAU | 75 | 44 | .190 [4.83] | .065 [1.65] | .008 [.20] | 99.9% Au | Green |
| CC110T47K240GAU | 110 | 47 | .200 [5.08] | .070 [1.78] | .008 [.20] | 99.9% Au | Green |

Custom conicals available upon request - Contact Piconics for more info.
 S-Parameters available @ www.piconics.com

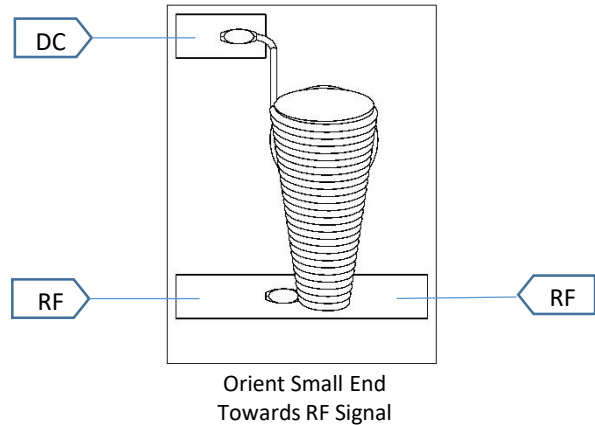
Mechanicals:



- Lead length is 0.200 inches MIN
- Insulation stripped within .050 of coil at large end
- Insulation stripped to coil body at small end
- Dimensions listed are nominal values

Not Drawn To Scale

Mounting:



Packaging:

| | |
|-----------------|----------|
| Package Type | Gel Pak |
| Quantity / Pack | 25 - 100 |

Notes:

1. L & Q measured @ 10 MHz on an HP 4191A RF Impedance Analyzer using a 16092A Spring Clip Fixture.
2. I_{dc} Max is the DC current at which the device sees a 35°C temperature rise over an ambient temperature of 90°C.
3. Please see "Conical Frequency Range Measurement Document" for process of determining the inductors frequency range.
4. Please see "Mounting Instructions" on our website for additional mounting instructions.