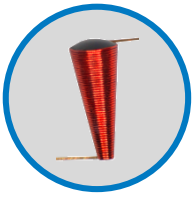
G100 Series
Broadband Conical Inductor



Features

- Broadband performance past 40 GHz
- High impedance across band
- 100 µin Au plated leads for wire bonding applications
- Low insertion loss across band (<-0.35 dB Typical)

G100 Series Conical Inductor Specification

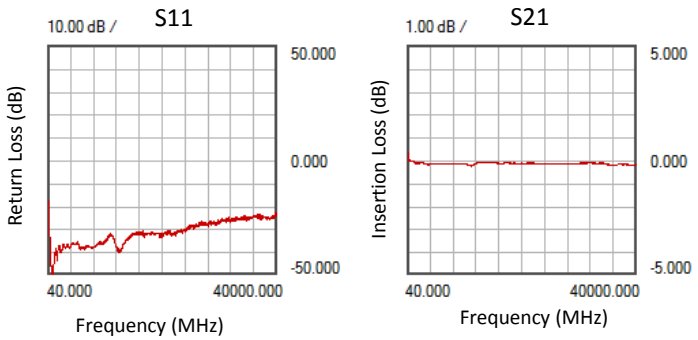
Part Number	L (uH)	I max (mA)	Upper Freq. Limit (GHz) Typ.	Return Loss (dB) Typ.	Insertion Loss (dB) Typ.	Q Typ. @ 10 MHz	DCR Typ (Ohms)	Foot Print (OD x L) Inch
CC21T36K240G100	.425	1000	36	-26	-.35	25-30	.135	.070 x .135
CC25T47K240G100	.250	200	40+	-26	-.35	25-30	.910	.025 x .050
CC45T47K240G100	.840	140	40+	-26	-.35	25-30	1.84	.035 x .085
CC50T44K240G100	2.35	200	20	-16	-.35	25-30	1.80	.060 x .135
CC75T36K240G100	6.93	600	13	-26	-.35	25-30	.840	.160 x .475
CC110T47K240G100	8.00	100	40+	-26	-.35	25-30	7.27	.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	Copper
Wire Insulation	240C Polyimide
Standard Lead Finish	100 µin Au

Frequency Response:



CC45T47K240G100
Shunt Measurement

PICONICS
High-Quality Micro-Electronic Inductors

G100 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 Orientation	Insulation Color
CC21T36K240G100	21	36	.135 [3.43]	.070 [1.78]	.018 [.46]	Radial	Green
CC25T47K240G100	25	47	.050 [1.27]	.025 [.64]	.008 [.20]	Opposed	Green
CC45T47K240G100	45	47	.085 [2.16]	.035 [.89]	.008 [.20]	Opposed	Green
CC50T44K240G100	50	44	.135 [3.43]	.060 [1.53]	.018 [.46]	Radial	Green
CC75T36K240G100	75	36	.475 [12.07]	.160 [4.07]	.018 [.46]	Radial	Green
CC110T47K240G100	110	47	.200 [5.08]	.070 [1.78]	.008 [.20]	Opposed	Green

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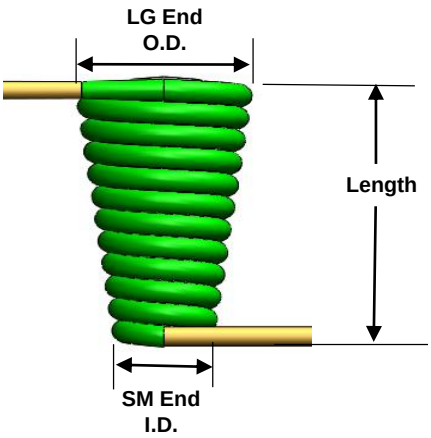
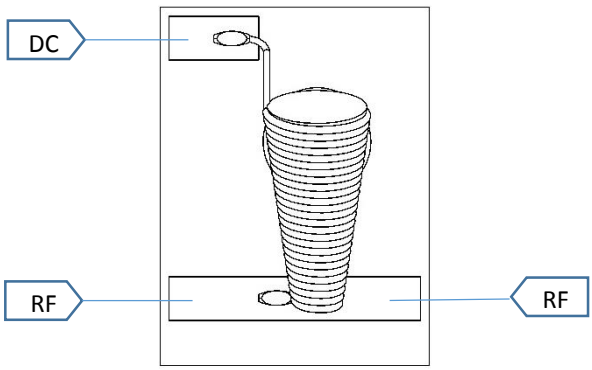
Mechanicals:



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

Not Drawn To Scale

Mounting:



Orient Small End
Towards RF Signal

Packaging:

Package Type	Gel Pak

Notes:

1. L & Q measured on an HP 4191A RF Impedance Analyzer using a 16092A Spring Clip Fixture.
2. Idc Max is the DC current at which the device sees a 100°C temperature rise over an ambient temperature of 25°C.
3. Please see “Conical Frequency Range Measurement Document” to see process for determining the inductors frequency range.
4. Please see “Mounting Instructions” in our application data section of our website for additional mounting instructions.