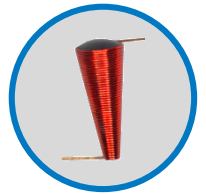




# G5 Series High Current Broadband Conical Inductor



## Features

- Broadband performance to 36 GHz
- High inductance up to 23  $\mu$ H
- Current handling up to 2.75 A
- Low insertion loss across band (<-0.35 dB Typical)

## G5 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
CC12T30K240G5	.145	2750	7.5	-16	-.35	14-19	.160	.085 x .150
CC19T40K240G5	.220	700	30	-26	-.35	25-30	.180	.040 x .080
CC21T36K240G5	.425	1000	36	-26	-.35	25-30	.140	.070 x .135
CC25T30K240G5	.825	2500	6	-16	-.35	30-35	.280	.120 x .325
CC31T30K240G5	1.35	2250	5	-16	-.35	30-35	.300	.175 x .375
CC50T36K240G5	2.75	700	18	-16	-.35	30-35	.670	.120 x .315
CC75T36K240G5	6.93	650	13	-26	-.35	25-30	.850	.160 x .475
CC110T36K240G5	23.0	600	11	-18	-.35	40-45	1.60	.175 x .700

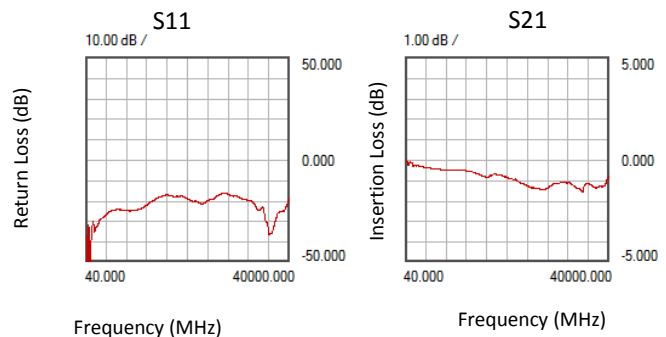
Custom conicals available upon request - Contact Piconics for more info.

S-Parameters available @ [www.piconics.com](http://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	5-10 $\mu$ m Au

## Frequency Response:



CC110T36K240G5  
Shunt Measurement



[www.piconics.com](http://www.piconics.com)

ISO 9001:2015

Established 1963

26 Cummings Road | Tyngsboro, MA 01879 | P: 978-649-7501 | [sales@piconics.com](mailto:sales@piconics.com)



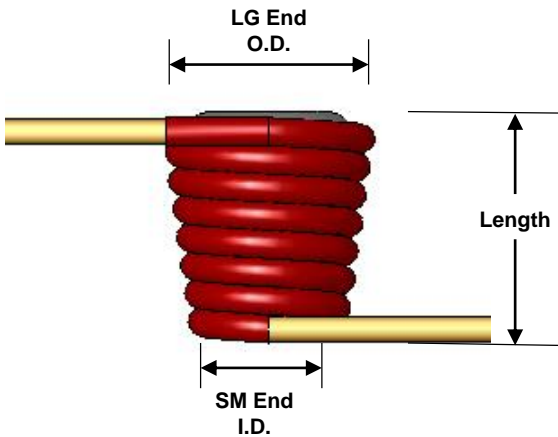
Rev A-2018

## G5 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
CC12T30K240G5	12	30	.150 [3.81]	.085 [2.16]	.018 [.46]	Radial	Red
CC19T40K240G5	19	40	.080 [2.03]	.040 [1.02]	.008 [.20]	Radial	Red
CC21T36K240G5	21	36	.135 [3.43]	.070 [1.78]	.018 [.46]	Radial	Red
CC25T30K240G5	25	30	.325 [8.26]	.120 [3.05]	.018 [.46]	Radial	Red
CC31T30K240G5	31	30	.375 [9.53]	.175 [4.45]	.018 [.46]	Radial	Red
CC50T36K240G5	50	36	.315 [8.00]	.120 [3.05]	.018 [.46]	Radial	Red
CC75T36K240G5	75	36	.475 [12.07]	.160 [4.06]	.018 [.46]	Radial	Red
CC110T36K240G5	110	36	.700 [17.78]	.175 [4.45]	.018 [.46]	Radial	Red

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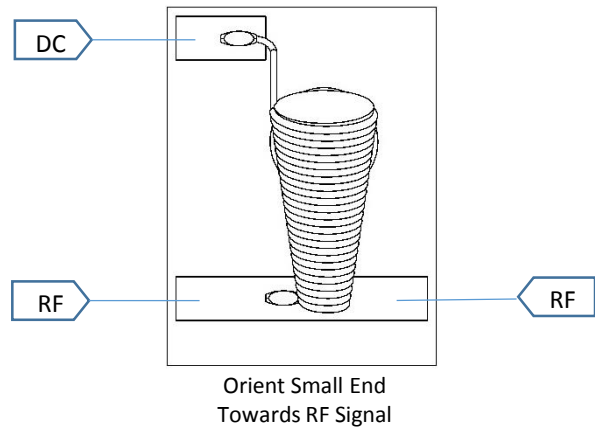
### Mechanicals:



- 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:



### Packaging:

Package Type	Gel Pak
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### 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.

