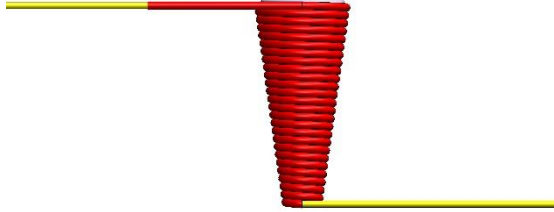
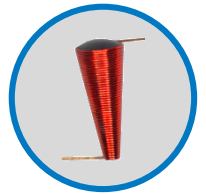




# -004 Series Broadband Conical Inductor



## Features

- Broadband performance up to 90 GHz
- Improved return loss over standard conicals.
- Smaller cone tip for enhanced high frequency performance.

## -004 Series Conical Inductor Specification

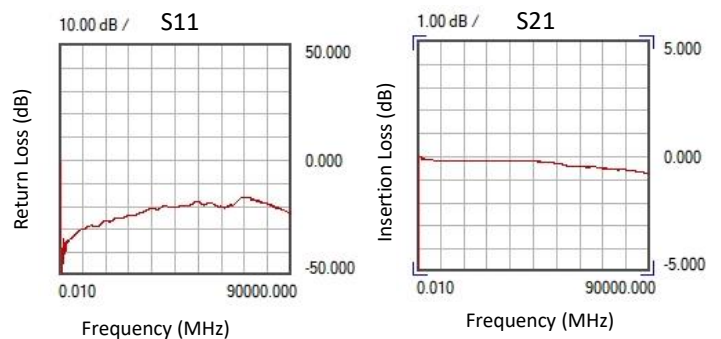
Part Number	L (uH)	I max (mA) @ 90 C	Upper Freq. Limit (GHz) Typ.	Return Loss (dB) Typ.	Insertion Loss (dB) Typ.	Q Typ. @ 10 MHz	DCR Typ (Ohms)	Foot Print (OD x L) Inch
CC25T50K240G5-004	.125	175	90	-20	-.35	6-10	1.00	.016 x .034
CC25T47K240G5-004	.155	200	90	-20	-.35	12-18	.60	.020 x .045
CC55T47K240G5-004	1.00	150	90	-20	-.35	25-30	1.60	.040 x .096

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 G5 Lead Finish	5-10 μin Au
Wirebondable G5/1 Lead Finish	100 μin Au / 20 μin Ni

## Frequency Response:



CC55T47K240G5-004  
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)



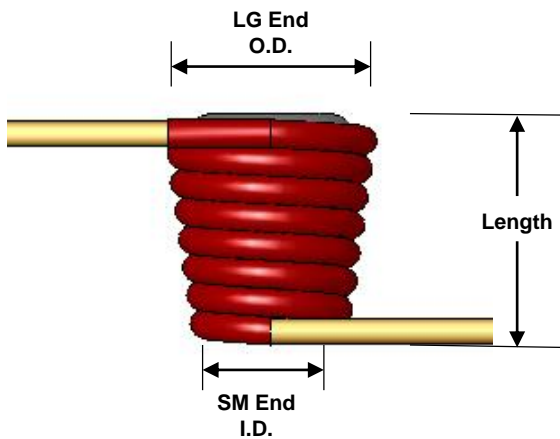
Rev A-2023

## -004 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
CC25T50K240G5-004	25	50	.034 [.86]	.016 [.41]	.004 [.10]	5-10 $\mu$ in Au	Red
CC25T47K240G5-004	25	47	.045 [1.14]	.020 [.51]	.004 [.10]	5-10 $\mu$ in Au	Red
CC55T47K240G5-004	55	47	.096 [2.44]	.040 [1.02]	.004 [.10]	5-10 $\mu$ in Au	Red

Custom conicals available upon request - Contact Piconics for more info.  
 S-Parameters available @ [www.piconics.com](http://www.piconics.com)

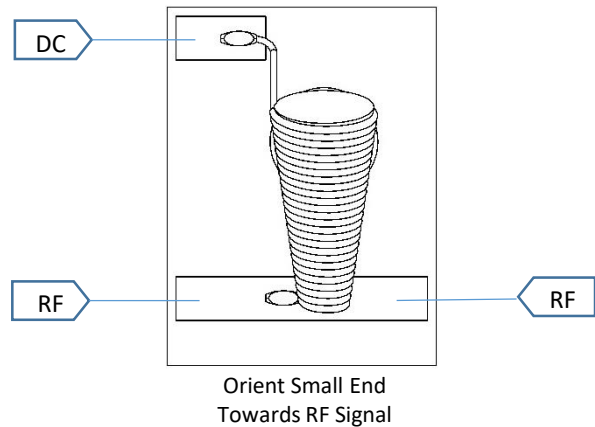
### Mechanicals:



- 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	100

### Notes:

1. L & Q measured @ 10 MHz on an HP 4191A RF Impedance Analyzer using a 16092A Spring Clip Fixture.
2. I<sub>dc</sub> 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.