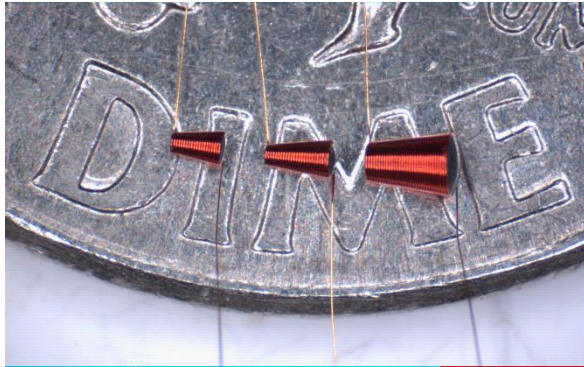
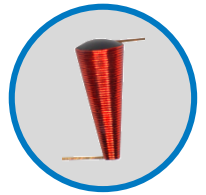




# 50 AWG Series Broadband Conical Inductor



## Features

- Broadband width past 40 GHz
- High Inductance in a small size
- 50 AWG Wire for low capacitance connections
- Low Insertion loss across band (<-0.35 dB Typical)

## 50 AWG 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
CC20T50K240G5	.150	TBD	40+	-22	-.35	8-12	1.00	.020 x .028
CC20T50K240G5-.012	.230	TBD	40+	-20	-.35	10-15	1.25	.024 x .028
CC20T50K240G5-.018	.330	TBD	40+	-18	-.35	10-15	1.55	.030 x .028
CC25T50K240G5	.235	TBD	40+	-22	-.35	10-15	1.30	.024 x .034
CC25T50K240G5-.004	.125	175	40+	-22	-.35	6-10	1.00	.021 x .034
CC32T50K240G5	.800	150	40+	-18	-.35	15-20	2.50	.035 x .045

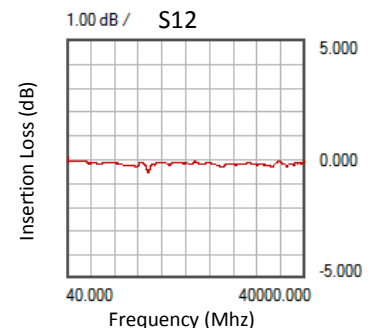
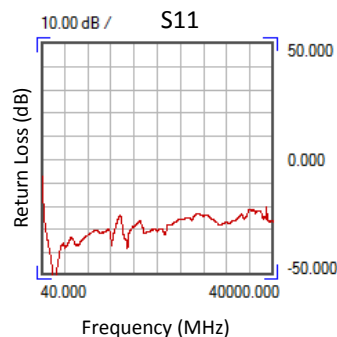
Custom conicals available upon request - Contact Piconics for more info.

S-Parameters available @ [www.piconics.com/conical-inductors](http://www.piconics.com/conical-inductors)

## Environmental:

Operating Temp.	-55°C to +155°C
Storage Temp.	-55°C to +155°C
RoHS Compliant	Yes
Outgas	Meets ASTM E595
MSL Rating	1

## Frequency Response:



CC25T50K240G5



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

ISO 9001:2008

Established 1963

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



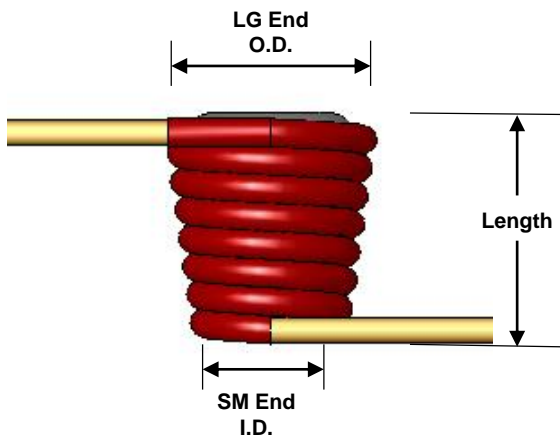
## 50 AWG Conical Inductor Specification

Part Number	Turns	Wire AWG	Length Inches [mm]	LG End O.D. Inches [mm]	SM End I.D. Inches [mm]	Lead Finish	Insulation Color
CC20T50K240G5	20	50	.028 [.71]	.020 [.51]	.008 [.20]	5-10 $\mu$ in Au	Red
CC20T50K240G5-.012	20	50	.028 [.71]	.024 [.61]	.012 [.31]	5-10 $\mu$ in Au	Red
CC20T50K240G5-.018	20	50	.028 [.71]	.030 [.76]	.018 [.46]	5-10 $\mu$ in Au	Red
CC25T50K240G5	25	50	.034 [.86]	.024 [.61]	.008 [.20]	5-10 $\mu$ in Au	Red
CC25T50K240G5-.004	25	50	.034 [.86]	.021 [.53]	.004 [.10]	5-10 $\mu$ in Au	Red
CC32T50K240G5	32	50	.045 [1.14]	.035 [.89]	.018 [.46]	5-10 $\mu$ in Au	Red

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

S-Parameters available @ [www.piconics.com/conical-inductors](http://www.piconics.com/conical-inductors)

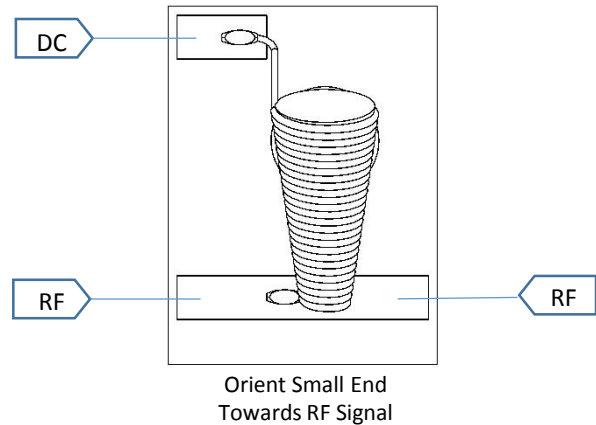
### Mechanicals:



- 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
Quantity / Pack	100

### Notes:

1. L & Q are measure 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 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.