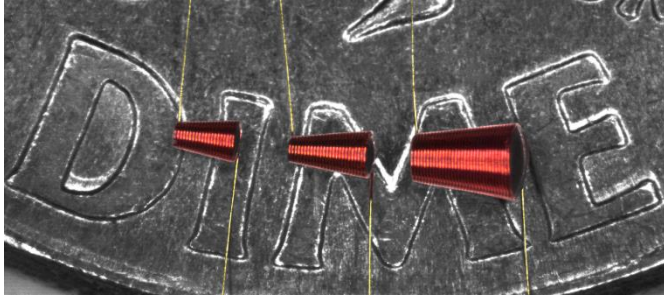
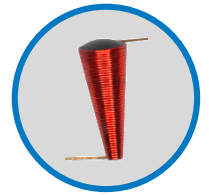




# 50 AWG Series Broadband Conical Inductor



## Features

- Broadband performance 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	150	40+	-22	-.35	8-12	1.00	.020 x .028
CC20T50K240G5-.012	.230	125	40+	-20	-.35	10-15	1.25	.024 x .028
CC20T50K240G5-.018	.330	125	40+	-18	-.35	10-15	1.55	.030 x .028
CC25T50K240G5	.235	150	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	125	40+	-18	-.35	15-20	2.50	.035 x .045

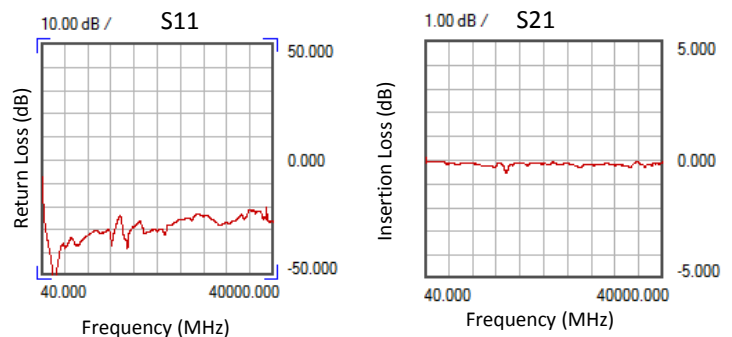
Custom conicals available upon request - Contact Piconics for more info.

S-Parameters available @ [www.piconics.com](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 µin Au

## Frequency Response:



CC25T50K240G5  
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)



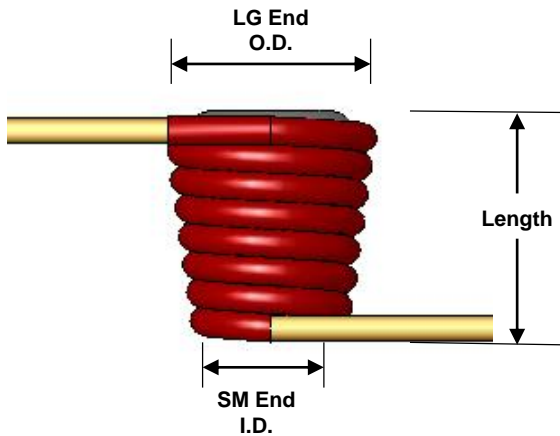
Rev A - 2018

## 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
<b>CC20T50K240G5</b>	20	50	.028 [.71]	.020 [.51]	.008 [.20]	5-10 $\mu$ in Au	Red
<b>CC20T50K240G5-.012</b>	20	50	.028 [.71]	.024 [.61]	.012 [.31]	5-10 $\mu$ in Au	Red
<b>CC20T50K240G5-.018</b>	20	50	.028 [.71]	.030 [.76]	.018 [.46]	5-10 $\mu$ in Au	Red
<b>CC25T50K240G5</b>	25	50	.034 [.86]	.024 [.61]	.008 [.20]	5-10 $\mu$ in Au	Red
<b>CC25T50K240G5-.004</b>	25	50	.034 [.86]	.021 [.53]	.004 [.10]	5-10 $\mu$ in Au	Red
<b>CC32T50K240G5</b>	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](http://www.piconics.com)

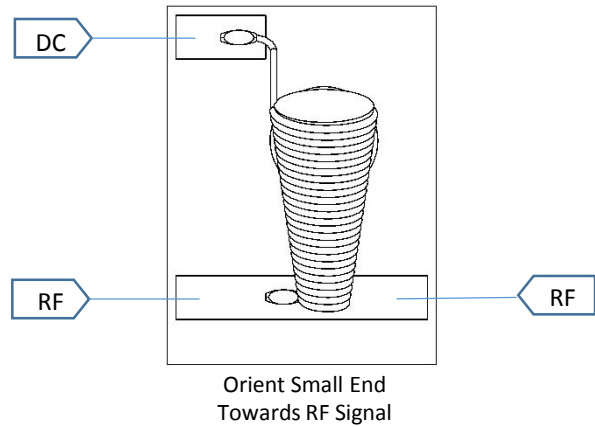
### Mechanicals:



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

\*Not Drawn To Scale\*

### Mounting:



### Packaging:

Package Type	Gel Pak
Quantity / Pack	100

### Notes:

1. L & Q measured 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.

