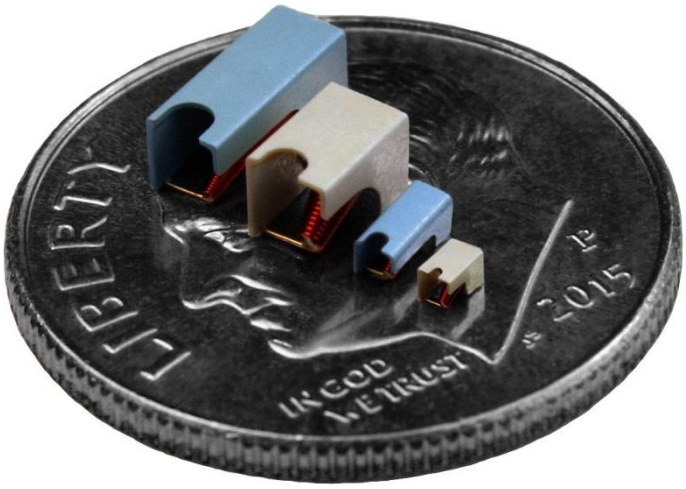
Micro SMT Broadband Conical Inductor



Features

- Smallest SMT conical available
- Broadband performance past 65 GHz
- SMT style for volume manufacturing
- Low insertion loss <-.35 dB
- Perfect for fiber-optic applications

Micro SMT Conical Inductor Specification

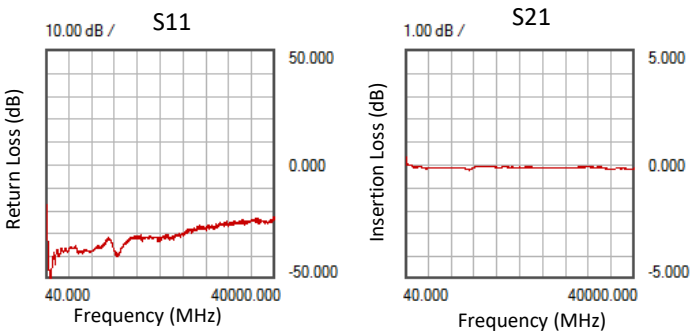
Part Number	L (uH)	I max (mA)	Upper Freq. Limit (GHz) Typ.	Return Loss (dB) Typ.	Insertion Loss (dB) Typ.	Q Typ. @ 10 MHz	DCR Typ (Ohms)	Wire Size (AWG)	Foot Print (L x W) Inch	Carrier Color
CC10T40K240G5-C	.047	1300	40	-20	-.35	15-20	0.070	40	.040 x .060	Tan
CC20T44K240G5-C	.170	325	65+	-20	-.35	22-28	0.300	44	.040 x .060	Tan
CC21T45K240G5-C	.180	275	TBD	TBD	TBD	18-22	0.400	45	.040 x .060	Tan
CC25T47K240G5-C	.250	230	65+	-26	-.35	25-30	0.800	47	.040 x .060	Tan

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 (Coil & Housing Only, Alt Epoxy Required)
MSL Rating		1
Soldering:	Max Temp	260°C
	Max # Reflow	3
	Max Time	10 seconds

Frequency Response:



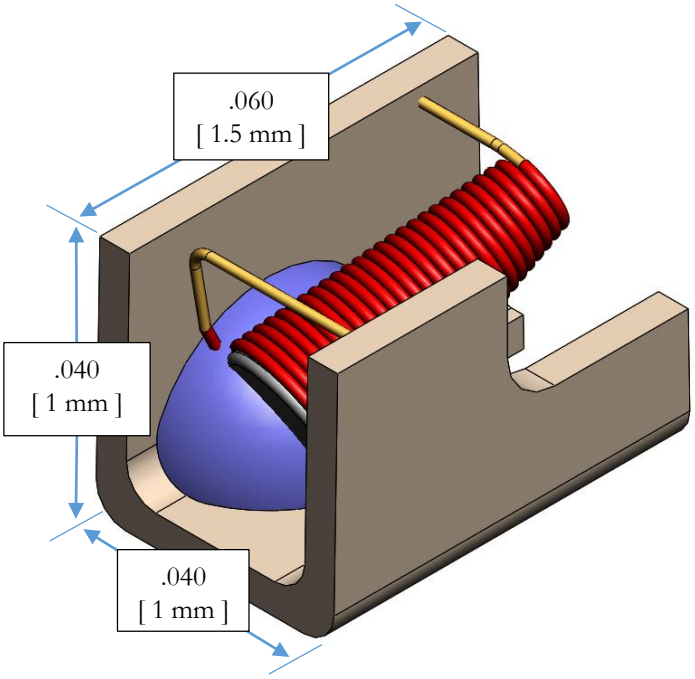
CC25T47K240G5-C
Shunt Measurement

Modelithics® Vendor Partner

PICONICS
High-Quality Micro-Electronic Inductors

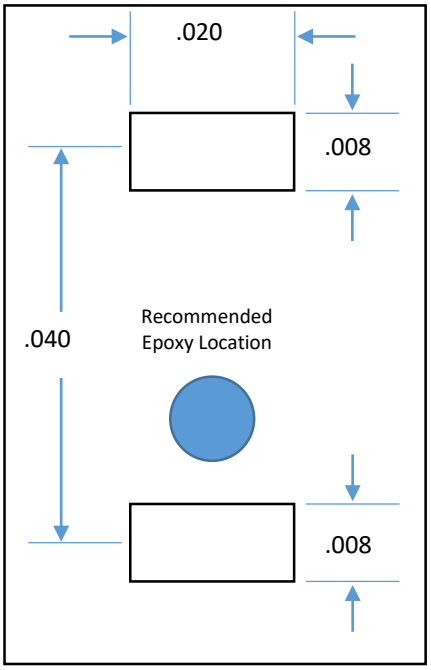
Mechanicals:

Not Drawn To Scale
Dimensions in Inches



Recommended Foot Print:

* See "Mounting Instructions" on our website for additional mounting instructions. *

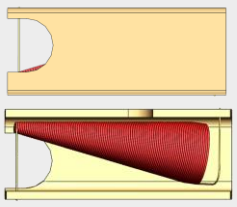


Tape & Reel Specs:

Part #	CC10T40K240G5-C CC20T44K240G5-C CC21T45K240G5-C CC25T47K240G5-C
Qty. Per Reel	2000 MAX/ Reel
Tape Width	8 mm
Pocket Pitch	4.0 mm
Outside Reel Diameter	180 mm

Alignment notch denotes small end of coil.

Top View



Bottom View

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.