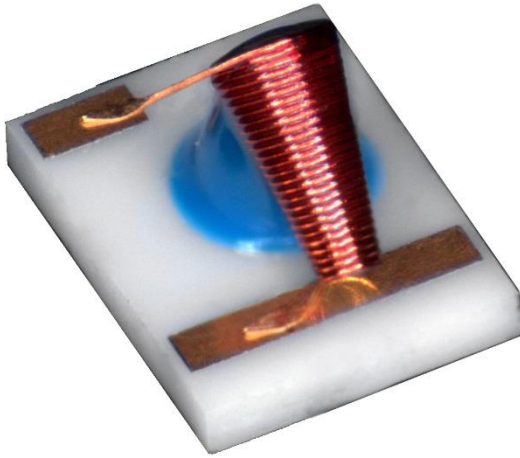
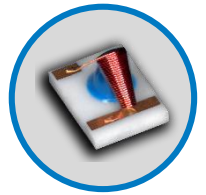




# Micro CCM Broadband Conical Inductor



## Features

- Substrate mounted for chip & wire applications
- Broadband performance to 40 GHz
- Integrated 50Ω microstrip
- Low insertion loss <-.35 dB
- Perfect for bias tee applications

## Micro CCM 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	Figure
CCM7T44-001	.024	500	40	-20	-.35	20-25	.090	44	.060 x .060	A
CCM10T47-007	.070	340	40	-26	-.35	25-30	.390	47	.060 x .060	A
CCM10T40-001	.047	1000	40	-20	-.35	15-20	.070	40	.060 x .080	B
CCM20T44-001	.170	325	40	-20	-.35	22-28	.300	44	.060 x .080	B
CCM24T45-001	.250	275	40	-26	-.35	20-25	.500	45	.060 x .080	B
CCM25T47-003	.250	230	40	-26	-.35	25-30	.800	47	.060 x .080	B

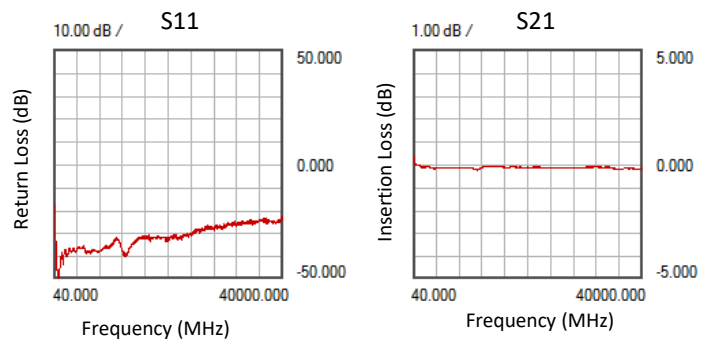
Custom conical assemblies available upon request - Contact Piconics for more info.

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

## Environmental:

Operating Temp.	-55°C to +125°C
Storage Temp.	-55°C to +125°C
RoHS Compliant	Yes
Outgas	Meets ASTM E595 (Special Epoxy Required)
Substrate Material	Alumina
Terminations	Wire Bondable Au
Backplane Metal	Au

## Frequency Response:



CCM25T47-003  
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 C-2021

## Mechanicals:

\*Not Drawn To Scale\*  
\*Dimensions in Inches\*

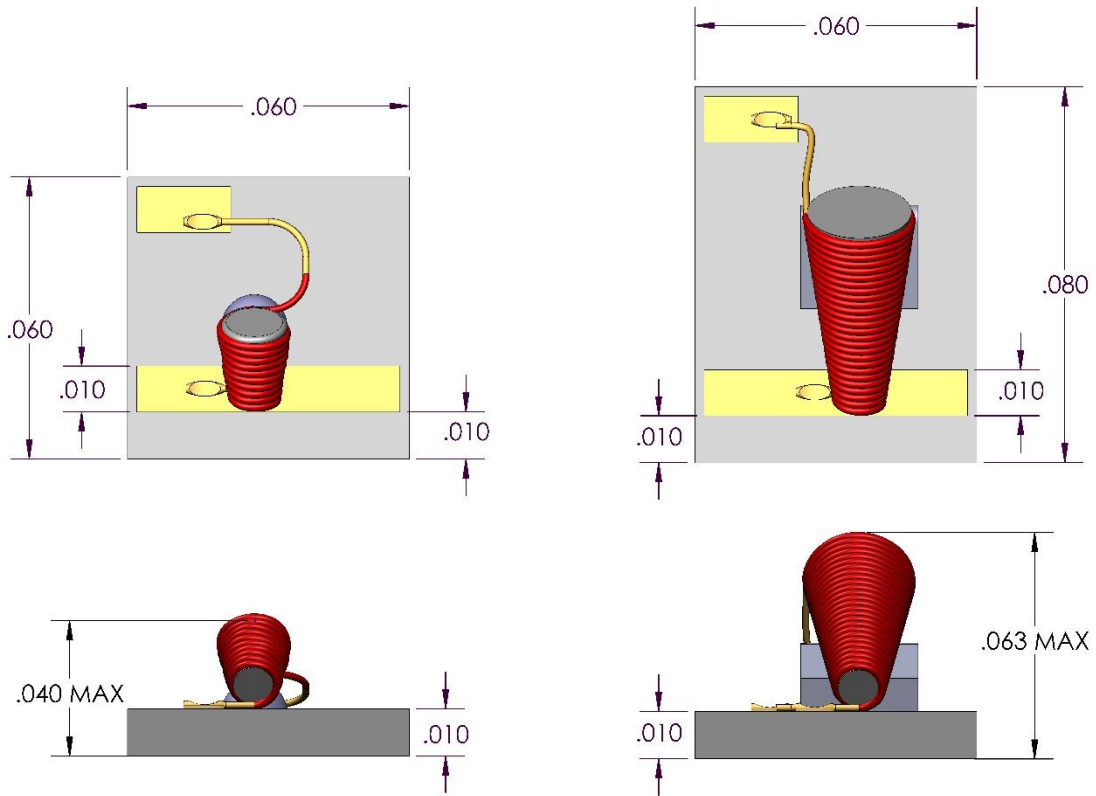


Figure: A

Figure: B

## Substrate:

Material	99.6 % Alumina
Metallization - Front side	TiW/Au/Ni/Au
Metallization - Backside	TiW/Au/Ni/Au

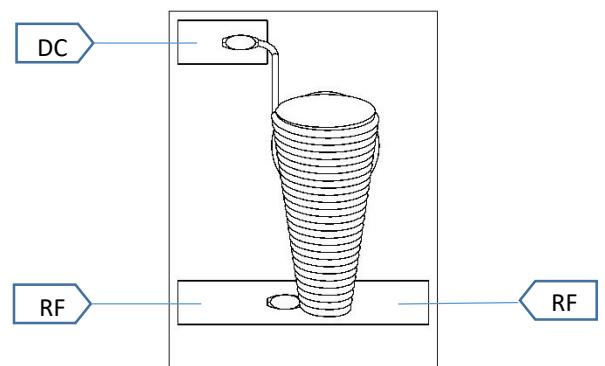
## Packaging:

Package Type	Gel Pak
Quantity / Pack	50

## Notes:

1. L & Q measured on an HP 4286A LCR Meter using probes.
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.

## Mounting:



Wire Bond For Connection