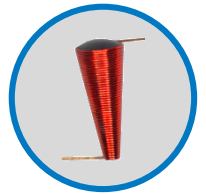




Micro Series Broadband Conical Inductor



Features

- Broadband performance past 40 GHz
- Low inductance with current handling up to 1300 mA
- Micro-size for small packages
- Low insertion loss across band (<-0.35 dB Typical)

Micro 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
CC7T40K240G5	.024	1300	40+	-18	-.35	10-15	.090	.035 x .035
CC7T44K240G5	.024	500	40+	-20	-.35	20-25	.090	.025 x .025
CC10T40K240G5	.047	1300	40+	-20	-.35	15-20	.070	.030 x .045
CC10T47K240G5	.070	340	40+	-26	-.35	25-30	.390	.023 x .025
CC15T47K240G5	.095	250	40+	-20	-.35	10-15	.450	.030 x .035
CC20T44K240G5	.170	325	40+	-20	-.35	22-28	.300	.030 x .055
CC24T45K240G5	.250	375	40+	-26	-.35	20-25	.500	.030 x .055
CC25T44K240G5	.250	300	40+	-26	-.35	22-28	.500	.035 x .070
CC25T47K240G5	0.250	230	40+	-26	-.35	25-30	.800	.025 x .050

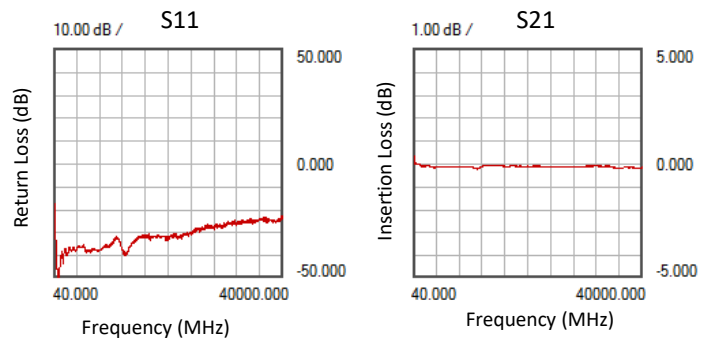
Custom conicals available upon request - Contact Piconics for more info.

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
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:



CC25T47K240G5
Shunt Measurement



www.piconics.com

ISO 9001:2015

Established 1963

26 Cummings Road | Tyngsboro, MA 01879 | P: 978-649-7501 | sales@piconics.com



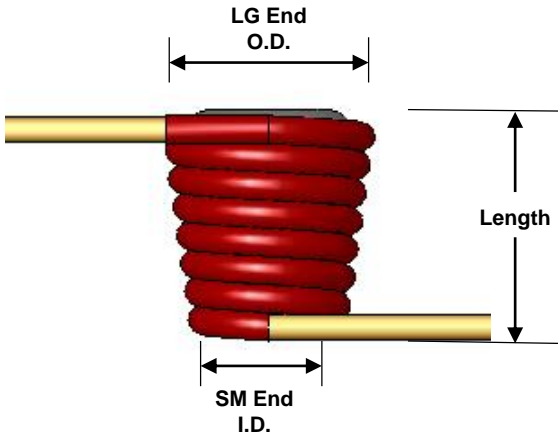
Rev C-2018

Micro 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
CC7T40K240G5	7	40	.035 [.89]	.035 [.89]	.008 [.20]	5-10 μ in Au	Red
CC7T44K240G5	7	44	.025 [.64]	.025 [.64]	.008 [.20]	5-10 μ in Au	Green
CC10T40K240G5	10	40	.045 [1.14]	.035 [.89]	.008 [.20]	5-10 μ in Au	Red
CC10T47K240G5	10	47	.025 [.64]	.023 [.58]	.008 [.20]	5-10 μ in Au	Red
CC15T47K240G5	15	47	.030 [.76]	.035 [.89]	.008 [.20]	5-10 μ in Au	Red
CC20T44K240G5	20	44	.055 [1.40]	.030 [.76]	.008 [.20]	5-10 μ in Au	Green
CC24T45K240G5	24	45	.055 [1.40]	.030 [.76]	.008 [.20]	5-10 μ in Au	Red
CC25T44K240G5	25	44	.070 [1.78]	.035 [.89]	.008 [.20]	5-10 μ in Au	Green
CC25T47K240G5	25	47	.050 [1.27]	.025 [.64]	.008 [.20]	5-10 μ in Au	Red

Custom conicals available upon request - Contact Piconics for more info.
 S-Parameters available @ www.piconics.com

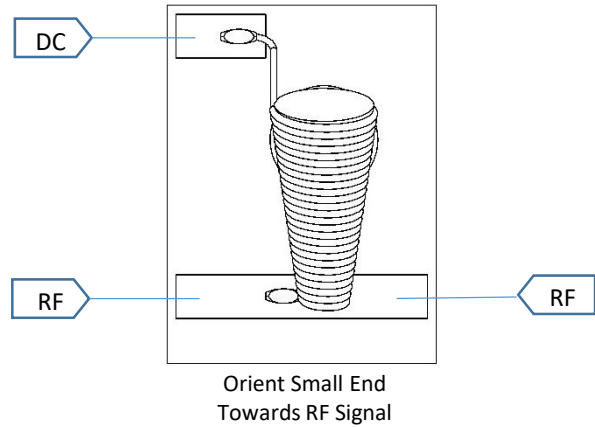
Mechanicals:



- 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. 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.