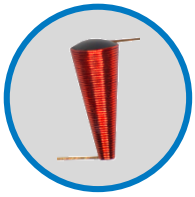
-X Series
Broadband Conical Inductor



Features

- Adjusted loading for higher RF power applications
- Current handling up to 2.75 A
- Low insertion loss across band (<-0.35 dB Typical)

-X Series Conical Inductor Specification

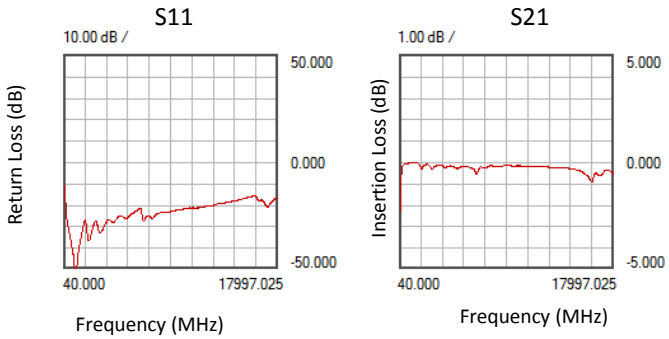
Part Number	L (uH)	I max (mA)	Upper Freq. Limit (GHz) Typ.	Return Loss (dB) Typ.	Insertion Loss (dB) Typ.	Q Typ. @ 10 MHz	DCR Typ (Ohms)	Foot Print (OD x L) Inch
CC12T30K240G5-X	.062	2750	7	-16	-.35	15-20	.160	.085 x .150
CC21T36K240G5-X	.150	1000	18	-16	-.35	18-23	.140	.070 x .135
CC21T36K240G5-B	.260	1000	18	-20	-.35	24-28	.140	.070 x .135
CC25T30K240G5-X	.275	2500	6	-16	-.35	30-35	.280	.120 x .325
CC31T30K240G5-X	.450	2250	5	-16	-.35	30-35	.300	.175 x .375

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 Lead Finish	5-10 µin Au

Frequency Response:



CC21T36K240G5-B
Shunt Measurement

PICONICS
High-Quality Micro-Electronic Inductors

-X 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
CC12T30K240G5-X	12	30	.150 [3.81]	.085 [2.16]	.018 [.46]	5-10 µin Au	Red
CC21T36K240G5-X	21	36	.135 [3.43]	.070 [1.78]	.018 [.46]	5-10 µin Au	Red
CC21T36K240G5-B	21	36	.135 [3.43]	.070 [1.78]	.018 [.46]	5-10 µin Au	Red
CC25T30K240G5-X	25	30	.325 [8.26]	.120 [3.05]	.018 [.46]	5-10 µin Au	Red
CC31T30K240G5-X	31	30	.375 [9.53]	.175 [4.45]	.018 [.46]	5-10 µin Au	Red

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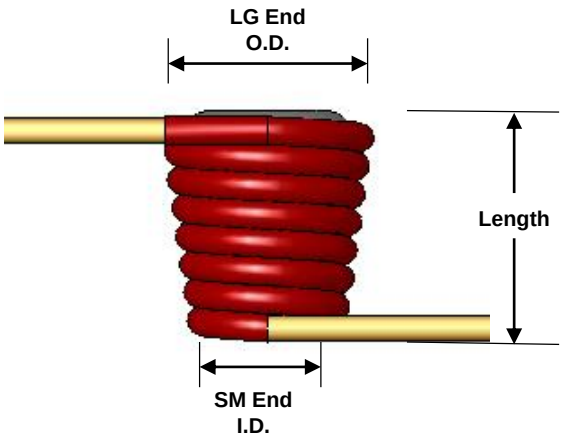
S-Parameters available @ www.piconics.com

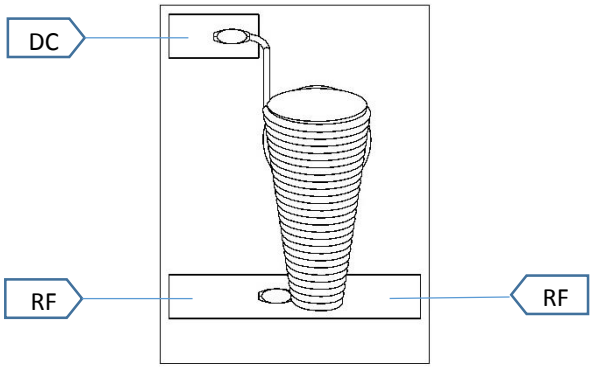
Mechanicals:



- 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:



Orient Small End
Towards RF Signal

Packaging:

Package Type	Gel Pak

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.