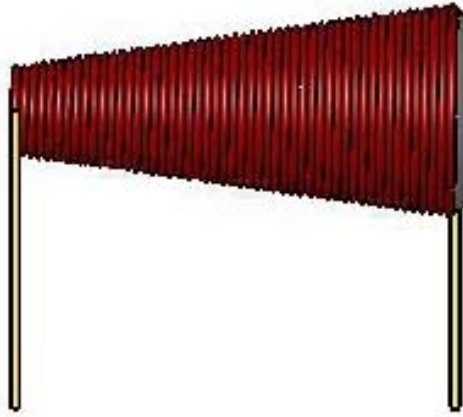




26 CUMMINGS ROAD, TYNGSBORO, MA 01879-1406

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## CC50T44K240G5

### Electrical

Frequency:***	10 MHz – 20 GHz Typ.
Return Loss:	-16dB Typ. In/Out
Insertion Loss:	-0.35 dB Typ.
Q Typ. @ 10 MHz:*	25-30
Idc (max):**	220 mA
Inductance @ 10 MHz:*	2.35 $\mu$ H
DCR Typ.:	1.60 $\Omega$
Operating Temp:	-55°C to 155°C

### Mechanical

Turns:	50
Wire:	44 Awg, 240 deg, Ins CU
ID- <sub>f<sub>high</sub></sub> :	.018 +/- .002
OD- <sub>f<sub>low</sub></sub> :	.060 Max
Length:	.135 Max
Fill:	Powdered Iron (S-Class)
Leads:	5 $\mu$ m Gold Plate

\* L & Q are measure on an HP 4191A Rf Impedance Analyzer using a 16092A Spring Clip Fixture.

\*\* Idc Max is the DC current at which the device sees a 100°C temperature rise over an ambient temperature of 25°C.

\*\*\* Please see "Conical Frequency Range Measurement Document" to see process for determining the inductors frequency range.