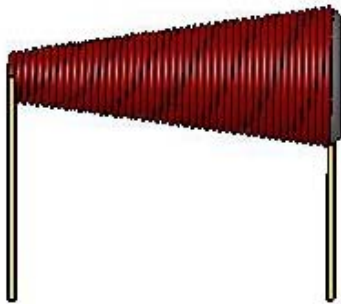
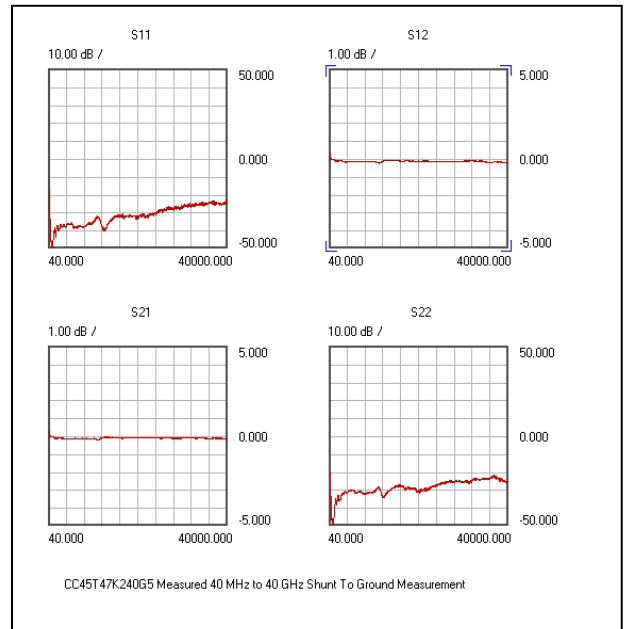


## CC45T47K240G5

### Electrical

|                             |                       |
|-----------------------------|-----------------------|
| <b>Frequency:***</b>        | 40 MHz – 40+ GHz Typ. |
| <b>Return Loss:</b>         | -26 dB Typ. In/Out    |
| <b>Insertion Loss:</b>      | -0.35 dB Typ.         |
| <b>Q Typ. @ 10 MHz:*</b>    | 25-30                 |
| <b>Idc (max):**</b>         | 160 mA                |
| <b>Inductance @ 10MHz:*</b> | 0.840 $\mu$ H         |
| <b>DCR Typ:</b>             | 1.60 $\Omega$         |
| <b>Operating Temp:</b>      | -55°C to +155°C       |



### Mechanical

|                             |                         |
|-----------------------------|-------------------------|
| <b>Turns:</b>               | 45                      |
| <b>Wire:</b>                | 47 Awg, 240 deg, Ins CU |
| <b>ID-f<sub>high</sub>:</b> | .008 +/- .002           |
| <b>OD-f<sub>low</sub>:</b>  | .035 Max                |
| <b>Length:</b>              | .085 Max                |
| <b>Fill:</b>                | Powdered Iron (S-Class) |
| <b>Leads:</b>               | 5-10 $\mu$ 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.