

### FIT50-1

#### Description:

The FIT50-1 toroidal inductor is specifically designed to minimize transients. It stores energy and therefore, conditions the output signal by leveling the current waveform providing a more stable current supply. Generally used in high frequency circuits, its standard design provides an economical solution in differential mode applications or as an output inductor.

#### Electrical Specifications (@25C):

| Min. Inductance (μH) |         | Rated<br>DC Amps | Max<br>DCR (mΩ) |
|----------------------|---------|------------------|-----------------|
| No Bias              | At Bias |                  |                 |
| 47.40                | 29.00   | 2.8              | 78.9            |

**Note:** No Bias inductance measured at .25V, 10KHZ.

#### Dimensions:

| A    | B    | C    | D    | E    | F    | G         |
|------|------|------|------|------|------|-----------|
| .700 | .475 | .750 | .300 | .474 | .125 | .020±.003 |

Units: In inches

**Weight:** .012 lbs.

#### Technical Notes:

1. Nominal inductance values are typically 10% higher than minimal rating.
2. Biased inductance measured at rated DC amps.
3. Operation at rated current yields approximately 40°C temperature rise over 20°C ambient.

**RoHS Compliance:** As of manufacturing date February 2005, all standard products meet the requirements of 2011/65/EU, known as the RoHS initiative.

\*Upon printing, this document is considered "uncontrolled". Please contact Triad Magnetics website for the most current version. For soldering and washing information please see <http://www.triadmagnetics.com/faq.html>

