

### CST306-1A

**Description:**

Designed for switching power supply applications, Triad current sense transformers are used to detect the current passing through a conductor. These transformers are very reliable and operate over the frequency range of 20 kHz-200 kHz.

**Electrical Specifications (@25C)**

| ET VμSEC<br>REF 20kHz | Turns<br>Count | Min.<br>Ind. mH | DCR Max. Ω | Pri. Amps |
|-----------------------|----------------|-----------------|------------|-----------|
| 500                   | 50             | 3.5             | .340       | 35.0 RMS  |

**Operating Temperature: -40°C to 85°C**

**Safety:**

These current sense transformers are constructed of UL rated 130°C materials.

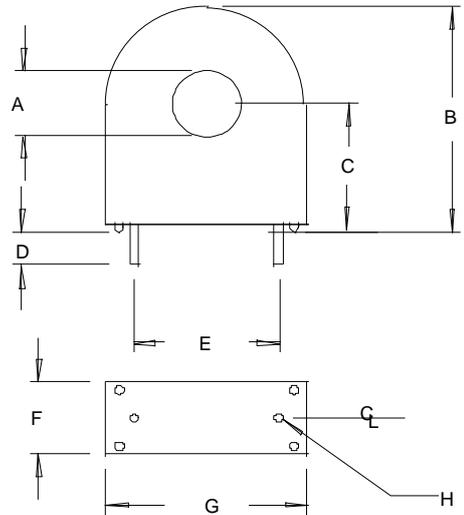
**Dimensions:**

| A<br>Min | B<br>Max | C<br>Ref | D<br>Ref | E<br>Ref | F<br>Max | G<br>Max | H<br>Dia. Pins |
|----------|----------|----------|----------|----------|----------|----------|----------------|
| .180     | .915     | .528     | .127     | .500     | .385     | .690     | .032           |

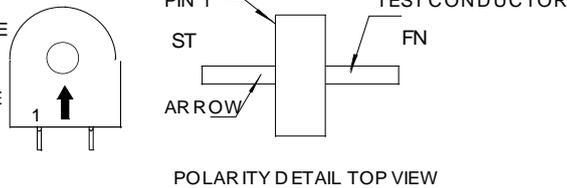
Units: In inches

**Technical Notes:**

1. Derate ET product by 32% for 50 kHz, 52% for 100 kHz and 50% for unidirectional operation.
2. Rated primary current renders approximately 40°C temp. rise.
3. Maximum recommended terminating resistance of 1 ohm per turn.
4. Primary is inserted through hole in casting.



1. START OF TEST CONDUCTOR TO HAVE THE SAME POLARITY AS PIN 1
2. DECAL ARROW ON CASE TO INDICATE POLARITY



**RoHS Compliance:** As of manufacturing date February 2016, all standard products meet the requirements of 2015/863/EU, known as the RoHS 3 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>