

### FS48-250

#### Description:

The FS48-250 is a dual primary and dual secondary, split bobbin design which operates with either a parallel input of 115V or a series input of 230V. The output voltage will be either 48.0V with a center-tap under a 0.25A load with the secondaries wired in series, or 24.0V under a 0.5A load with the secondaries wired in parallel. The split bobbin design eliminates the need for costly electrostatic shielding.

#### Electrical Specifications (@25C)

1. Maximum Power: 12.0VA
2. Primary: Series: 230V; Parallel: 115V
3. Secondary: Series: 48.0V CT @ 0.25A; Parallel: 24.0V @ 0.5A
4. Voltage Regulation: 25% TYP @ full load to no load
5. Temperature Rise: 25C TYP
6. Hipot tested 100% at 2500 VRMS

#### Construction:

Three flange bobbin construction with primaries and secondaries wound side by side for low capacitive coupling.

#### Agency File:

UL: File E53148, UL 5085-2 (506), Class B General Purpose Transformer, cUL: File E53148, UL 5085-2 (506), Class B General Purpose Transformer, Canadian Use (CSA 22.2, No.66.2-06)

This model is also available in Class 3, UL 5085-3 (1585) version as [FS48-250-C2](#)



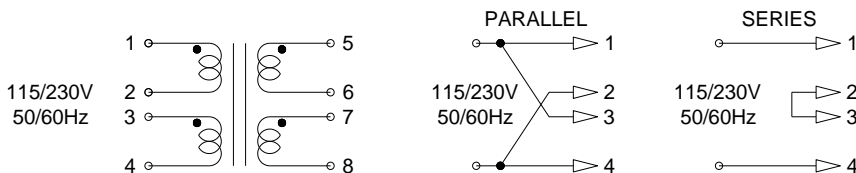
#### Dimensions:

Units in inches.

| H     | W     | L     | A     | B     | C     | D     | E     | F     |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.437 | 1.562 | 1.875 | 0.300 | 0.400 | 1.410 | 0.041 | 0.020 | 0.234 |

Weight: 0.70 lbs

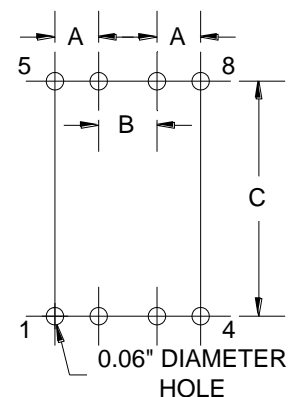
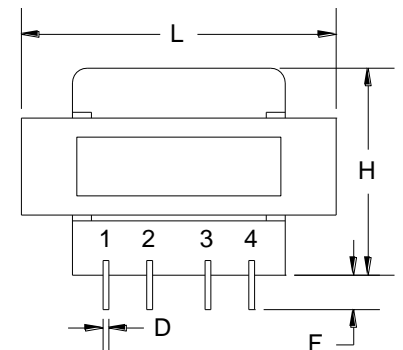
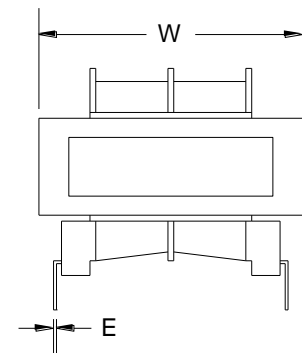
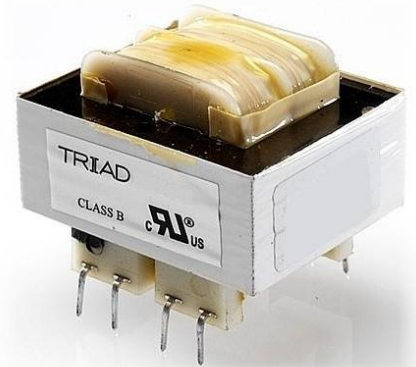
#### Schematic:



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

As of April 7, 2008, UL standards 506 and 1585 will be migrated to UL 5085-2 and 5085-3, respectively.

\* Upon printing, this document is considered "uncontrolled". Please contact Triad Magnetics' website for the most current version.



**Board Layout**