# CLASS 2 TRANSFORMER

# FS12-500-C2

### Description:
The FS12-500-C2 is a series/parallel primary and dual secondary, split bobbin design which operates with either a parallel input of 115V or a series input of 230V. The secondaries are 6.3V @ 0.5A each. They can be used independently (up to 300V difference between them) or in series for double the voltage or in parallel for double the current. The split bobbin design eliminates the need for costly electrostatic shielding.

### Electrical Specifications (@25C)
1. Maximum Power: 6.0VA
2. Primary: Series: 230V; Parallel: 115V
3. Secondaries: 6.3V @ 0.5A each
4. Voltage Regulation: 25% TYP @ full load to no load
5. Operating Temperature: -40C to 100C
6. Storage Temperature: -55C to 150C
7. Hipot tested 100% at 4200VRMS pri to sec
8. Hipot tested 100% at 2160 VRMS sec to sec
9. Recommended fuse (fuse on primary): For 115V - Cooper/Bussman, Type MDL, rated 500mA, 250V. For 230V – Littlefuse, Type 313, rated 250mA, 250V

### Construction:
Three flange bobbin construction with primaries and secondaries wound side by side for low capacitive coupling. UL Class F Insulation System (155°C).

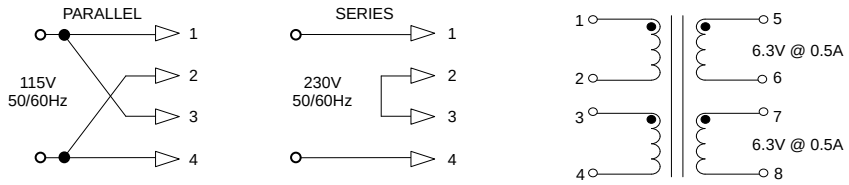
### Agency File:
UL: File E65390, UL 5085-1 & 3 (1585), Class 2 Transformer
cUL: File E65390, UL 5085-1 & 3 (1585) For Canadian Use(CSA 22.2, No.66.3-06)
TUV Certificate No.: R72120839, EN61558, Safety Isolating xfmr, general use

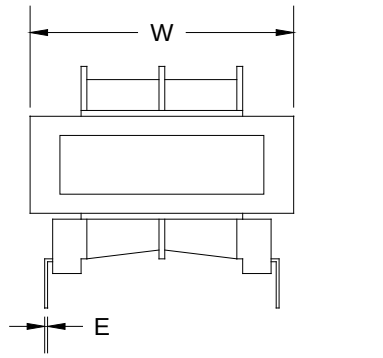
### Dimensions:
Units in inches.

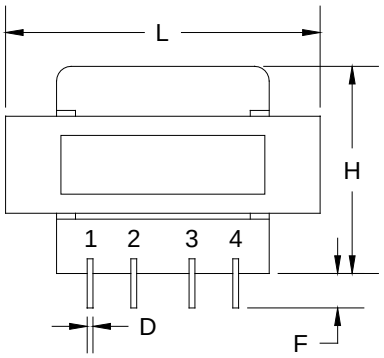
| H | W | L | A | B | C | D | E | F |
|---|---|---|---|---|---|---|---|---|
| 1.312 | 1.312 | 1.625 | 0.250 | 0.350 | 1.280 | 0.041 | 0.020 | 0.234 |

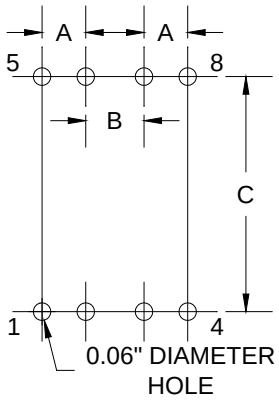
Weight: 0.44 lbs

### Schematic:




**Board Layout**

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

**Note:** Order and shipping documentation may have a “-B” suffix; this indicates Bulk packaging but does not show on the actual part number marked on the transformer.

*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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# Mouser Electronics

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