THREE FLANGE DUAL PRIMARY 5.0VA PC BOARD POWER TRANSFORMER

A. Electrical Specifications (@ 25°C)
1. Maximum Power: 5.0VA
2. Primary Voltage and Frequency: 115/230VAC 50/60Hz
3. Secondary RMS Rating: See Table A
4. Voltage Regulation: 20% TYP @ full load to no load
5. Temperature Rise(normal op. cond.): 30°C TYP (45°C MAX)
6. A 10% input Voltage change will proportionally affect transformer sec
   voltage. The max. allowed wdg temp under abnormal condition is 155°C
7. Insulation Resistance:
   100MΩ MIN @ 500VDC, Pri to Sec, Pri to Core, Sec to Core
8. Dielectric Withstand: 3750Vrms 1 minute @ Pri to Sec
   1500Vrms 1 minute @ Pri to Core, Sec to Core

B. Marking; includes input and output ratings (per sheet 2)

C. Safety:
Conforms to construction requirement of:
UL5085−1, −2; CSA No. 66.1, 66.2
(from Datecode 1244 and onwards).
UL506, UL1411
UL1446 (CLASS 130(B))
EN61558−1, −2−6
Safety certificate file reference:
UL E138028, E79781, E92957
CSA 175561
TUV (P.S.) 4478013415698

Non short−circuit proof safety isolating transformer.
Intended for mounting on PCBs and for building into end use−equipment. Fuse rating
Not intended for series/parallel connection with other transformers. (See tabulation)
Mounting hardware may reduce spacing in end use application.

D. Mechanical Specifications;

TOLERANCES (mm)

| ± 4 ± 0.2 |
| 4 ± 20 ± 0.3 |
| 20 ± 50 ± 0.4 |

PREPARED BY:
C. POPPE
NOTE: BOARD WASHING IS NOT RECOMMENDED FOR THESE PARTS

ENGINEER:
M. PITCHAI
DRAWING CONTROL NO. REV
P−A1−12225 J

MODEL DESCRIPTION
POWER TRANSFORMER

MODEL SPECIFICATION
PL5.0−XX−130B

TAMURA CORPORATION OF AMERICA
1040 SOUTH ANDREASEN DRIVE, SUITE 100 ESCONDIDO, CA 92029
(760) 871−2009

DIM: mm[in] SCL: 1/1 Sh: 1 OF 2

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E. Mounting Footprint:

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<th>1</th>
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<th>4</th>
<th>6</th>
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<tr>
<td>7</td>
<td>9</td>
<td>10</td>
<td>12</td>
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</tbody>
</table>
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- 25.40±0.38(1.000±0.015)
- 5.08±0.38(0.200±0.015)
- 10.2±0.38(0.400±0.015)

F. Schematic Diagram:

**PRIMARY INPUT CONNECTIONS**

**SERIES CONNECTION**

- 230VAC 50/60Hz
- 115VAC 50/60Hz

**PARALLEL CONNECTION**

- PRI
- SEC

**SECONDARY OUTPUT CONNECTIONS**

- PRI
- SEC

**SERIES CONNECTION**

- 5.0–CT–5.0
- 6.3–CT–6.3
- 8.0–CT–8.0
- 10.0–CT–10.0
- 12.0–CT–12.0
- 14.0–CT–14.0
- 18.0–CT–18.0

G. Table A

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>PARALLEL</th>
<th>SERIES</th>
<th>SERIES WITH CT</th>
<th>OUTPUT</th>
<th>SECONDARY FUSE REQ'D EACH WINDING</th>
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</thead>
<tbody>
<tr>
<td>PL5.0–10–130B</td>
<td>5.0</td>
<td>10.0</td>
<td>5.0–CT–5.0</td>
<td>2X5.0V</td>
<td>T 0.50A</td>
</tr>
<tr>
<td>PL5.0–12–130B</td>
<td>6.3</td>
<td>12.6</td>
<td>6.3–CT–6.3</td>
<td>2X6.3V</td>
<td>T 0.40A</td>
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<tr>
<td>PL5.0–16–130B</td>
<td>8.0</td>
<td>16.0</td>
<td>8.0–CT–8.0</td>
<td>2X8.0V</td>
<td>T 0.315A</td>
</tr>
<tr>
<td>PL5.0–20–130B</td>
<td>10.0</td>
<td>20.0</td>
<td>10.0–CT–10.0</td>
<td>2X10.0V</td>
<td>T 0.25A</td>
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<tr>
<td>PL5.0–24–130B</td>
<td>12.0</td>
<td>24.0</td>
<td>12.0–CT–12.0</td>
<td>2X12.0V</td>
<td>T 0.25A</td>
</tr>
<tr>
<td>PL5.0–28–130B</td>
<td>14.0</td>
<td>28.0</td>
<td>14.0–CT–14.0</td>
<td>2X14.0V</td>
<td>T 0.20A</td>
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<tr>
<td>PL5.0–36–130B</td>
<td>18.0</td>
<td>36.0</td>
<td>18.0–CT–18.0</td>
<td>2X18.0V</td>
<td>T 0.16A</td>
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</table>

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