THREE FLANGE DUAL PRIMARY 1.1VA PC BOARD POWER TRANSFORMER

A. Electrical Specifications (@ 25°C)

1. Maximum Power: 1.1VA
2. Input Voltage and Frequency: 115/230V 50/60 Hz
3. Secondary Voltage: See Table A
4. Voltage Regulation: 24% TYP @ full load to no load
5. Temperature Rise: 35°C TYP (45°C MAX allowed)
6. Insulation Resistance:
   - 100 MΩ MIN @ 500VDC, Pri to Sec, Pri to Core
   - 100 MΩ MIN @ 500VDC, Sec to Core
7. Hi-Pot: 2500 Vrms 1 minute @ Pri to Sec
   - 1500 Vrms 1 minute @ Pri to Core
   - 1500 Vrms 1 minute @ Sec to Core
   - 500 Vrms 1 minute @ Sec to Sec

B. Marking: TAMURA, Tamura part number (see sheet 2), MICROTRAN, Microtran part number (see sheet 2), date code, country of origin, safety logos and input and output ratings

C. Safety:
   - Insulation Class B (130°C) File No. E92957.
   - UL 1585, Class 2 or 3, Inherently limited, File No. E95844.
   - UL 506, General Purpose, File No. E91239.

D. Mechanical Specifications:

![Diagram of the power transformer with dimensions](image-url)
F. Connection Diagram:

### PRIMARY INPUT CONNECTIONS

- **115V**: 50/60Hz
- **230V**: 50/60Hz

### PARALLEL CONNECTION

- **AC OUTPUT**

### SERIES CONNECTION

- **AC OUTPUT**

### SERIES CONNECTION WITH CENTER TAPE

- **AC OUTPUT**

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*not UL – recognized for series connect.*

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G. Table A: (NOTE: all parts are dual marked with both part numbers)

<table>
<thead>
<tr>
<th>TAMURA PART NO.</th>
<th>MICROTRAN PART NO.</th>
<th>PARALLEL CONNECTION</th>
<th>SERIES CONNECTION</th>
<th>SERIES CONNECTION WITH CT</th>
</tr>
</thead>
<tbody>
<tr>
<td>3FD-210</td>
<td>PSD2-10</td>
<td>5.0 0.220</td>
<td>10.0 0.110</td>
<td>5.0-CT-5.0 0.110</td>
</tr>
<tr>
<td>3FD-212</td>
<td>PSD2-12</td>
<td>6.3 0.180</td>
<td>12.6 0.090</td>
<td>6.3-CT-6.3 0.090</td>
</tr>
<tr>
<td>3FD-216</td>
<td>PSD2-16</td>
<td>8.0 0.140</td>
<td>16.0 0.070</td>
<td>8.0-CT-8.0 0.070</td>
</tr>
<tr>
<td>3FD-220</td>
<td>PSD2-20</td>
<td>10.0 0.110</td>
<td>20.0 0.055</td>
<td>10.0-CT-10.0 0.055</td>
</tr>
<tr>
<td>3FD-224</td>
<td>PSD2-24</td>
<td>12.0 0.090</td>
<td>24.0 0.045</td>
<td>12.0-CT-12.0 0.045</td>
</tr>
<tr>
<td>3FD-228</td>
<td>PSD2-28</td>
<td>14.0 0.080</td>
<td>28.0 0.040</td>
<td>14.0-CT-14.0 0.040</td>
</tr>
<tr>
<td>3FD-236</td>
<td>PSD2-36</td>
<td>18.0 0.060</td>
<td>36.0 0.030</td>
<td>18.0-CT-18.0 0.030</td>
</tr>
<tr>
<td>3FD-248</td>
<td>PSD2-48</td>
<td>24.0 0.046</td>
<td>48.0 0.023</td>
<td>24.0-CT-24.0 0.023</td>
</tr>
<tr>
<td>3FD-256</td>
<td>PSD2-56</td>
<td>28.0 0.040</td>
<td>56.0 0.020</td>
<td>28.0-CT-28.0 0.020</td>
</tr>
<tr>
<td>3FD-2120</td>
<td>PSD2-120</td>
<td>60.0 0.020</td>
<td>120.0* 0.010</td>
<td>60.0-CT-60.0 0.010</td>
</tr>
</tbody>
</table>

**DRAWING CONTROL NO.**: P-A1-11644

**REV**: G

**MODEL DESCRIPTION**: SIZE 2 3FD & PSD FAMILY POWER TRANSFORMER

**MODEL SPECIFICATION**: 3FD-2XX & PSD2-XX

**DRAWING DATE**: 3/1/2009

**DESIGN**: TAMURA CORPORATION OF AMERICA

**ADDRESS**: 100 SOUTH ANDREASEN DRIVE, FOSTER CITY, CA 94404

**TELEPHONE**: (650) 691-8700

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**REVISION**: 3/1/2009

**DATE**: 3/1/2009

**SIGNATURE**: M. PITCHAI

**TITLE**: ENGINEER

**DATE**: 3/1/2009

**SIGNATURE**: M. PITCHAI

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