

|                                                                              |
|------------------------------------------------------------------------------|
| REV. Status                                                                  |
| REVISION -<br>09/23/99 TS                                                    |
| REVISION A<br>ADDED RoHS<br>05/10/06 MP                                      |
| REVISION B<br>ADDED THRU HOLE<br>DIMS. CLARIFIED<br>SCHEMATIC<br>05/01/07 MP |

LOW PROFILE, THREE FLANGE 2.5VA POWER TRANSFORMER APPROVED TO UL506 AND CSA C22.2 NO. 66-1988 AND USES A UL CLASS B (130°C) APPROVED INSULATION SYSTEM

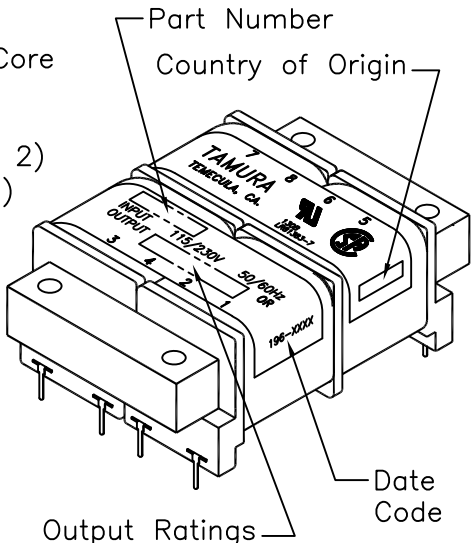
A. Electrical Specifications (@25°C)

- Maximum Power: 2.5VA
- Primary Voltage and Frequency: 115/230VAC  
50/60Hz.
- Secondary RMS Rating: See Table A on sheet 2
- voltage Regulation: 35% TYP @ full load to no load
- Temperature Rise: 25°C TYP (40°C MAX)
- Insulation Resistance:  
100MΩ MIN @ 500VDC, Pri to Sec, Pri to Core  
100MΩ MIN @ 500VDC, Sec to core
- Dielectric Withstand:  
1500Vrms 1 minute @ Pri to Sec, Pri to Core  
1500Vrms 1 minute @ Sec to Core

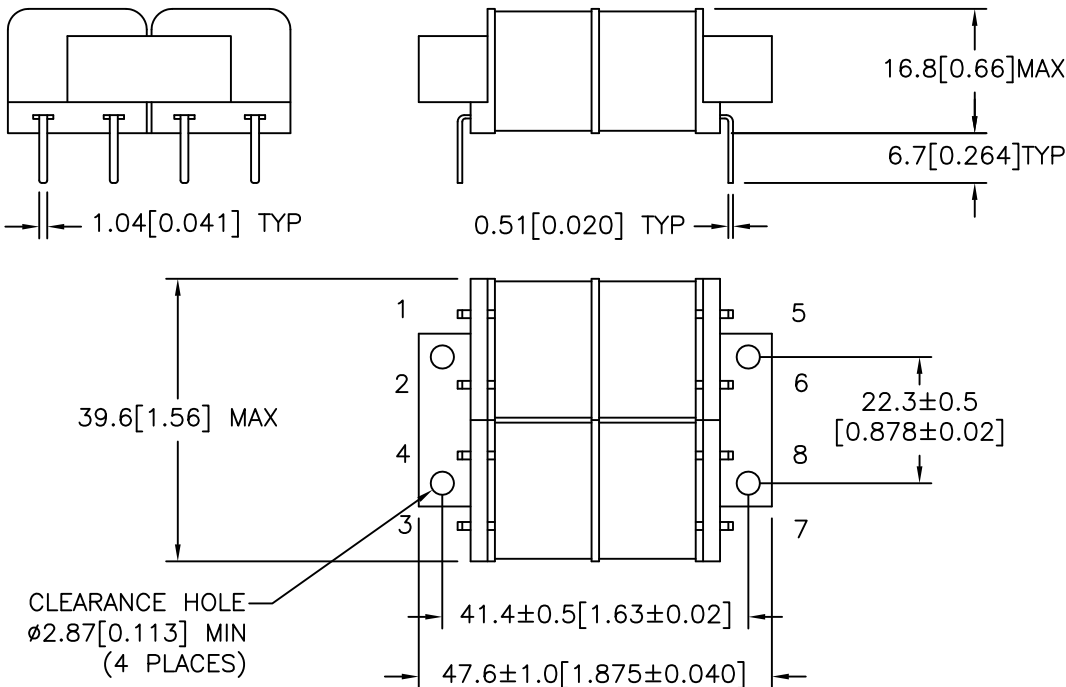
- B. Marking: TAMURA, Tamura part number (see sheet 2)  
MICROTRAN, Microtran part number (see sheet 2)  
date code, country of origin, safety logos  
and input and output ratings (see sheet 2)

C. Safety:

UL approved, UL506 File E145619, E79781  
Insulation Class B (130°C) File No E92957  
CSA Certified, C22.2 No. 66 File 081383  
(3FL Series)



D. Mechanical Specifications:



| TOLERANCES (mm) |
|-----------------|
| ≤ 4 ± 0.2       |
| 4 ≤ 20 ± 0.3    |
| 20 ≤ 50 ± 0.4   |

PREPARED BY:  
K. BRENNAN

ENGINEER:  
M. PITCHAI  
SAFETY ENGINEER  
T. CLEM

APPROVED:  
Y. SEKIGUCHI

| DRAWING CONTROL NO.                                                                                                                                                                                                                                                                                                                                                                                | REV | MODEL DESCRIPTION                                                                                                              | MODEL SPECIFICATION              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| P-A1-10568                                                                                                                                                                                                                                                                                                                                                                                         | B   | 2.5VA 3FL & PF SERIES<br>POWER TRANSFORMER                                                                                     | 3FL & PF 2.5VA                   |
| CONTENTS OF THIS DRAWING ARE<br>SUBJECT TO CHANGE WITHOUT<br>PRIOR NOTICE                                                                                                                                                                                                                                                                                                                          |     | <b>TAMURA CORPORATION OF AMERICA</b><br>1040 SOUTH ANDREASEN DRIVE, #100 ESCONDIDO, CA. 92029<br>(951) 699-1270 FAX 7607400536 | DIM: mm[In] SCL: NONE SH: 1 OF 2 |
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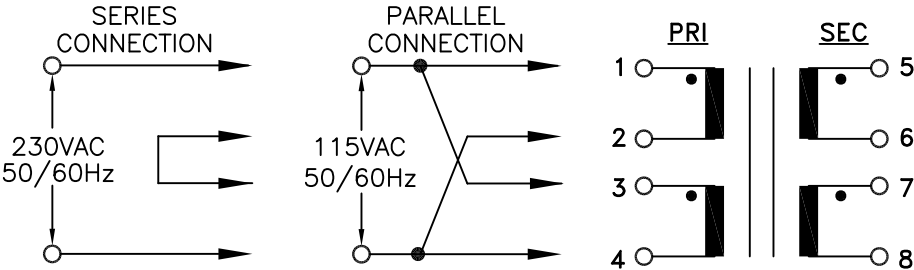
REV. Status  
REVISION -

E. Mounting Footprint:

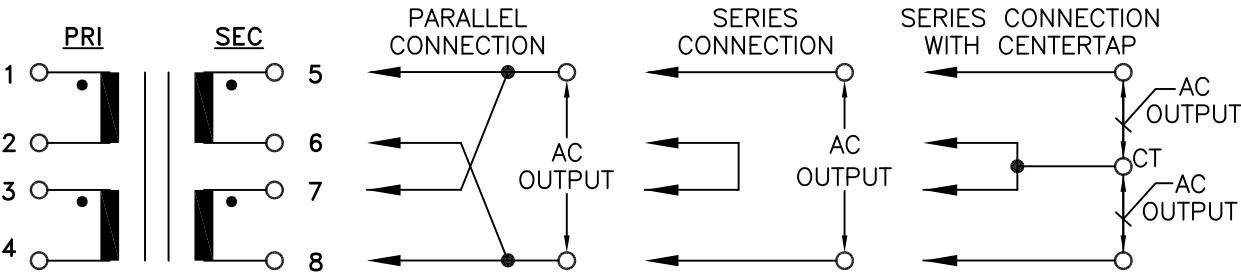
MODEL NUMBER  
3FL & PF 2.5VA

F. Schematic Diagram:

PRIMARY INPUT CONNECTIONS



SECONDARY OUTPUT CONNECTIONS



G. Table A:

| TAMURA<br>PART NO. | MICROTRAN<br>PART NO. | PARALLEL CONNECTION |          | SERIES CONNECTION |          | SERIES CONNECTION WITH CT |          |
|--------------------|-----------------------|---------------------|----------|-------------------|----------|---------------------------|----------|
|                    |                       | AC VOLTS            | RMS AMPS | AC VOLTS          | RMS AMPS | AC VOLTS                  | RMS AMPS |
| 3FL10-250          | PF2.5-10              | 5.0                 | 0.500    | 10.0              | 0.250    | 5.0-CT-5.0                | 0.250    |
| 3FL12-200          | PF2.5-12              | 6.3                 | 0.400    | 12.6              | 0.200    | 6.3-CT-6.3                | 0.200    |
| 3FL16-150          | PF2.5-16              | 8.0                 | 0.300    | 16.0              | 0.150    | 8.0-CT-8.0                | 0.150    |
| 3FL20-125          | PF2.5-20              | 10.0                | 0.250    | 20.0              | 0.125    | 10.0-CT-10.0              | 0.125    |
| 3FL24-100          | PF2.5-24              | 12.0                | 0.200    | 24.0              | 0.100    | 12.0-CT-12.0              | 0.100    |
| 3FL30-85           | PF2.5-30              | 15.0                | 0.170    | 30.0              | 0.085    | 15.0-CT-15.0              | 0.085    |
| 3FL34-75           | PF2.5-34              | 17.0                | 0.150    | 34.0              | 0.075    | 17.0-CT-17.0              | 0.075    |
| 3FL40-60           | N/A                   | 20.0                | 0.120    | 40.0              | 0.060    | 20.0-CT-20.0              | 0.060    |
| 3FL56-45           | PF2.5-56              | 28.0                | 0.090    | 56.0              | 0.045    | 28.0-CT-28.0              | 0.045    |
| 3FL88-28           | N/A                   | 44.0                | 0.056    | 88.0              | 0.028    | 44.0-CT-44.0              | 0.028    |
| 3FL120-20          | N/A                   | 60.0                | 0.040    | 120.0             | 0.020    | 60.0-CT-60.0              | 0.020    |
| 3FL230-10          | N/A                   | 115.0               | 0.020    | 230.0             | 0.010    | 115.0-CT-115.0            | 0.010    |

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DRAWING CONTROL NO.

P-A1-10568-2

REV

B

MODEL DESCRIPTION  
2.5VA 3FL & PF SERIES  
POWER TRANSFORMER

TAMURA CORPORATION OF AMERICA  
1040 SOUTH ANDREASEN DRIVE, #100 ESCONDIDO, CA. 92029  
(951) 699-1270 FAX 7607400536

MODEL SPECIFICATION

3FL & PF 2.5VA

DIM: mm[In] SCL: NONE SH: 2 OF 2

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