



REV. Status

REVISION -  
10/22/99 TSREVISION A  
CHANGED F  
SEE PG. 2  
11/22/99 TSREVISION B  
CHANGED  
HI-POT, SAFETY  
AND SCHEMATIC.  
05/21/01 MPREVISION C  
REV'D HI-POT  
09/20/04 MPREVISION D  
ADDED RoHS &  
UPDATED LABEL  
01/26/06 MPREVISION E  
CHG TUV FILE #  
WAS 810/89  
(EN60950 & VDE  
0551). CLARIFIED  
PIN OUTS  
04/19/07 YSREVISION F  
UPDATED SAFETY  
11/15/07 YSREVISION G  
UPDATED SAFETY  
10/19/12 MPREVISION H  
SAFETY NOTES  
ADDED  
03/20/13 MP

## TOLERANCES (mm)

$\leq 4$	$\pm 0.2$
$4 \leq 20$	$\pm 0.3$
$20 \leq 50$	$\pm 0.4$

PREPARED BY:

Mathi Pitchai

ENGINEER:

Mathi Pitchai

SAFETY ENGINEER

B. Oconnel

APPROVED:

Peter Brune

## 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

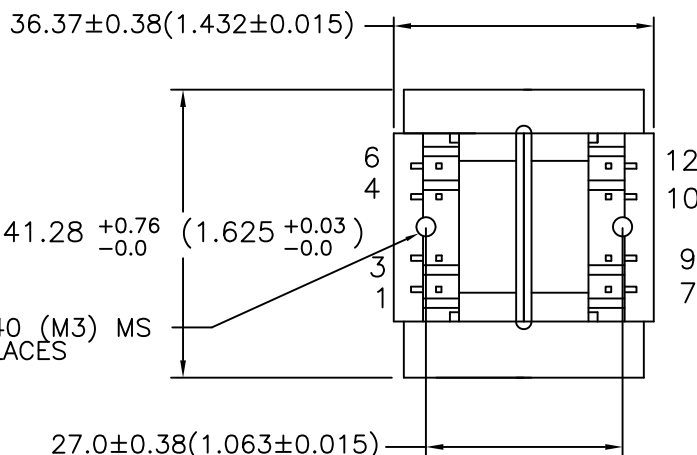
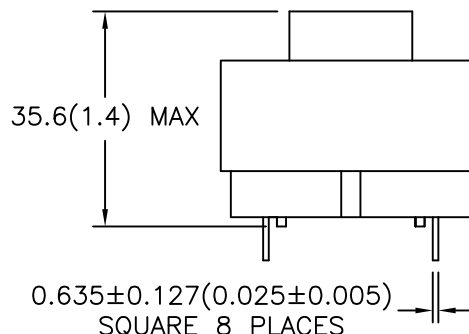
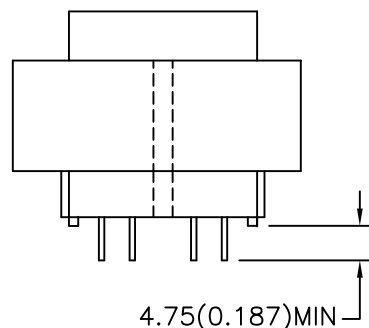
Non short-circuit proof safety isolating transformer.

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;

CLEARANCE HOLE FOR 4-40 (M3) MS  
ø2.87(0.113) MIN. 2 PLACES

NOTE: BOARD WASHING IS NOT RECOMMENDED FOR THESE PARTS

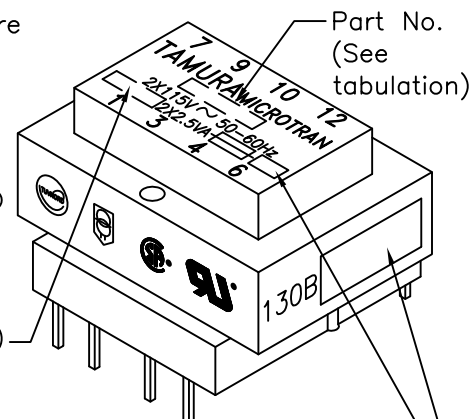
DWG CONTROL NO. P-A1-12225 ACAD\MXFMR\A1122251.DWG	REV H	POWER TRANSFORMER	PL5.0-XX-130B
TAMURA CORPORATION OF AMERICA 43352 BUSINESS PARK DRIVE, TEMECULA, CA. 92590-6624 (951) 699-1270 FAX 9516769482			MODEL SPECIFICATION
DIM: mm(In) SCL: 1/1 SH: 1 OF 2			

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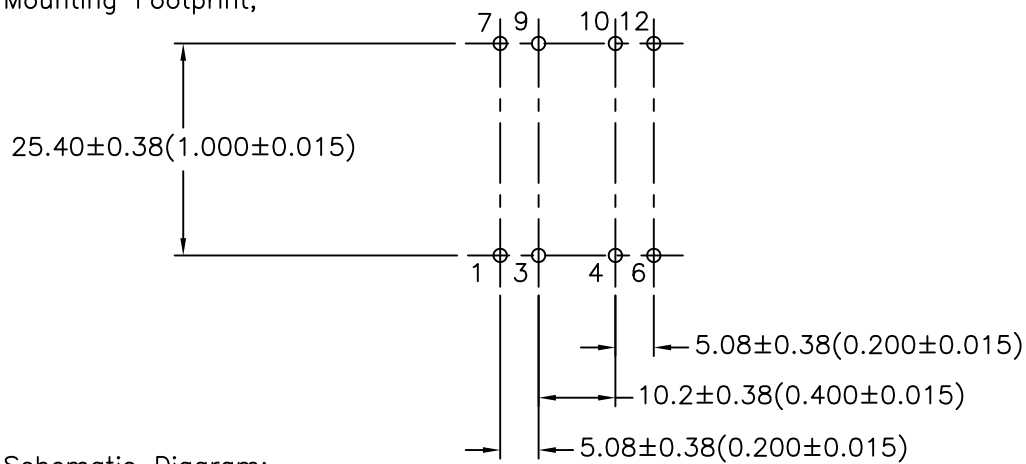
RoHS  
COMPLIANT

MODEL NUMBER

PL5.0-XX-130B

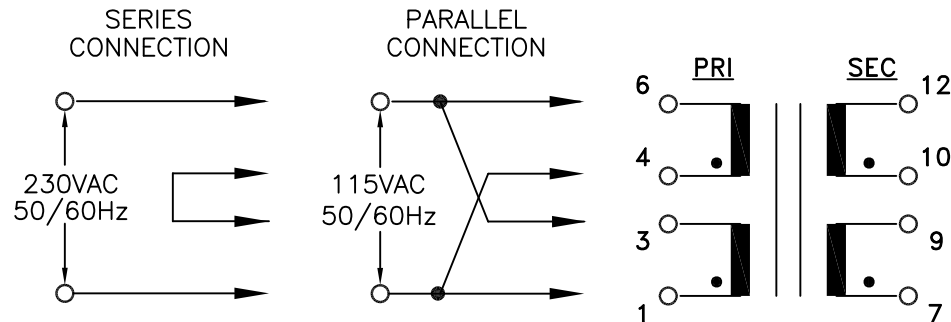


## E. Mounting Footprint;

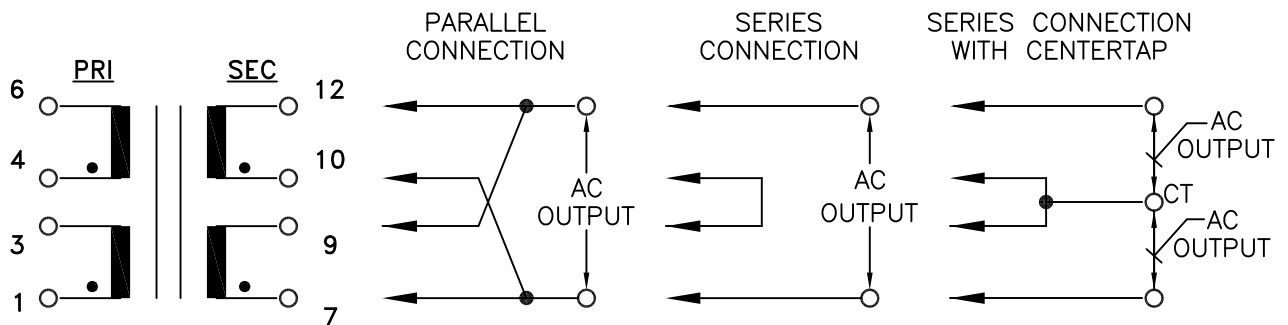


## F. Schematic Diagram:

### PRIMARY INPUT CONNECTIONS



### SECONDARY OUTPUT CONNECTIONS



## G. Table A

T= Time lag

PART NO.	PARALLEL		SERIES		SERIES WITH CT		OUTPUT	SECONDARY FUSE REQ'D EACH WINDING
	AC VOLTS	RMS AMPS	AC VOLTS	RMS AMPS	AC VOLTS	RMS AMPS		
PL5.0-10-130B	5.0	1.00	10.0	0.50	5.0-CT-5.0	0.50	2X5.0V	T 0.50A
PL5.0-12-130B	6.3	0.80	12.6	0.40	6.3-CT-6.3	0.40	2X6.3V	T 0.40A
PL5.0-16-130B	8.0	0.62	16.0	0.31	8.0-CT-8.0	0.31	2X8.0V	T 0.315A
PL5.0-20-130B	10.0	0.50	20.0	0.25	10.0-CT-10.0	0.25	2X10.0V	T 0.25A
PL5.0-24-130B	12.0	0.42	24.0	0.21	12.0-CT-12.0	0.21	2X12.0V	T 0.25A
PL5.0-28-130B	14.0	0.36	28.0	0.18	14.0-CT-14.0	0.18	2X14.0V	T 0.20A
PL5.0-36-130B	18.0	0.28	36.0	0.14	18.0-CT-18.0	0.14	2X18.0V	T 0.16A

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DWG CONTROL NO.  
P-A1-12225  
ACAD\MXFMR\A1122252.DWG

REV  
H

POWER  
TRANSFORMER

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(951) 699-1270 FAX 9516769482

**PL5.0-XX-130B**

MODEL SPECIFICATION

DIM: mm(In) SCL: 1/1 SH: 2 OF 2

MODEL NUMBER

**PL5.0-XX-130B**