

REV. Status

- REVISION -
02/04/03 YS
- REVISION A
ADDED RoHS &
UPDATED LABELS
DELETED CSA#
LR69223
02/27/06 MP
- REVISION B
CHG TUV FILE #
WAS 810/89
(EN60950 & VDE
0551). CLARIFIED
PIN OUTS
04/19/07 YS
- REVISION C
UPDATE LOGO'S
TO STD IED.
Dielectric
Withstand WAS
Hi-Pot 3500.
4-30-08 EB
- REVISION D
MOUNTING
NOTE ADDED
09/28/11 MP
- REVISION E
UPDATE SAFETY
09/29/11 MP
- REVISION F
SAFETY NOTES
ADDED
03/20/13 MP

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

PREPARED BY:

M. PITCHAI

ENGINEER:
M. PITCHAI

SAFETY ENGINEER
B. OCONNELL

APPROVED:
P. BRUNE

THREE FLANGE DUAL PRIMARY 20VA PC BOARD POWER TRANSFORMER

A. Electrical Specifications (@ 25°C)

1. Maximum Power: 20VA
2. Primary Voltage and Frequency: 115/230VAC 50/60Hz
3. Secondary RMS Rating: See Table A
4. Voltage Regulation: 18% TYP @ full load to no load
5. Temperature Rise(normal op. condition): 45°C TYP (60° 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 1143 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

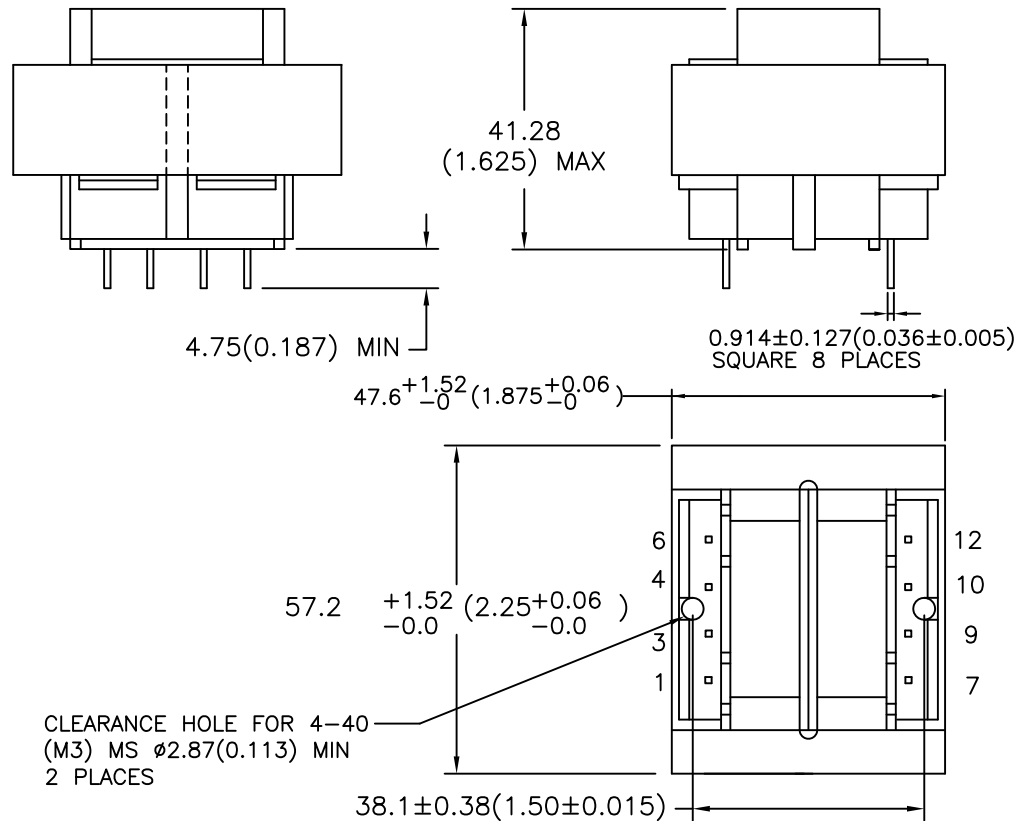
Non short-circuit proof safety isolating transformer.

Intended for mounting on PCBs and for building into end use-equipment.

Not intended for series/parallel connection with other transformers.

Mounting hardware may reduce spacing in end use application.

D. Mechanical Specifications:



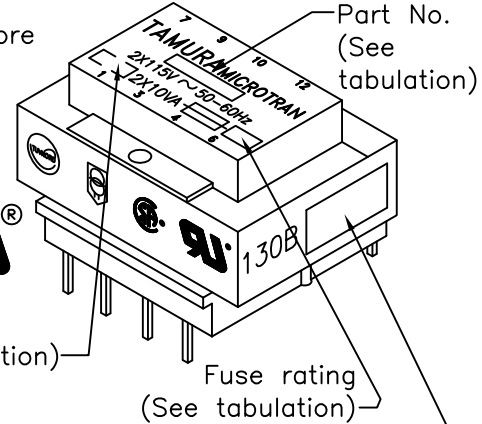
CLEARANCE HOLE FOR 4-40
(M3) MS Ø2.87(0.113) MIN
2 PLACES

NOTE: BOARD WASHING IS NOT RECOMMENDED FOR THESE PARTS



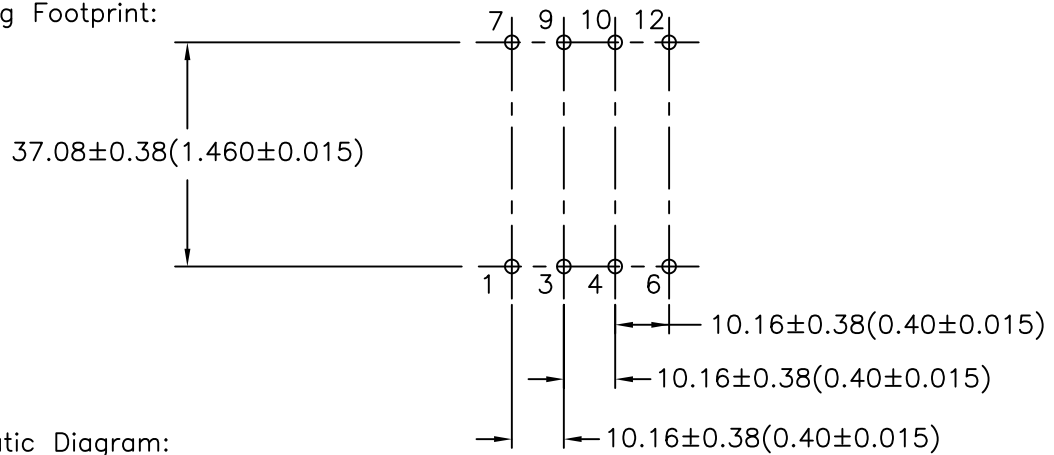
MODEL NUMBER

PL20-XX-130B



| | | | |
|--|----------|---|-------------------------------------|
| DRAWING CONTROL NO. P-A1-12260 ACAD/MXFMR/A1122601.DWG | REV F | MODEL DESCRIPTION POWER TRANSFORMER | MODEL SPECIFICATION PL20-XX-130B |
| CONTENTS OF THIS DRAWING ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE | | TAMURA CORPORATION OF AMERICA 1040 SOUTH ANDREASEN DRIVE, #100 ESCONDIDO, CA. 92029 (951) 699-1270 FAX 7607400536 | DIM: mm[In] SCL: 1/1 SH: 1 OF 2 |
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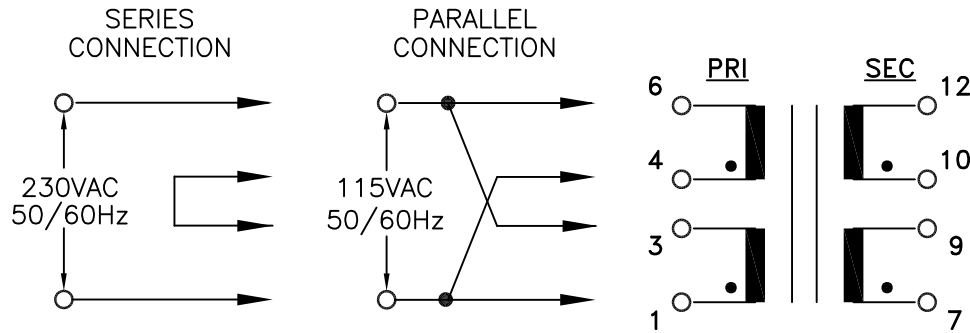
E. Mounting Footprint:



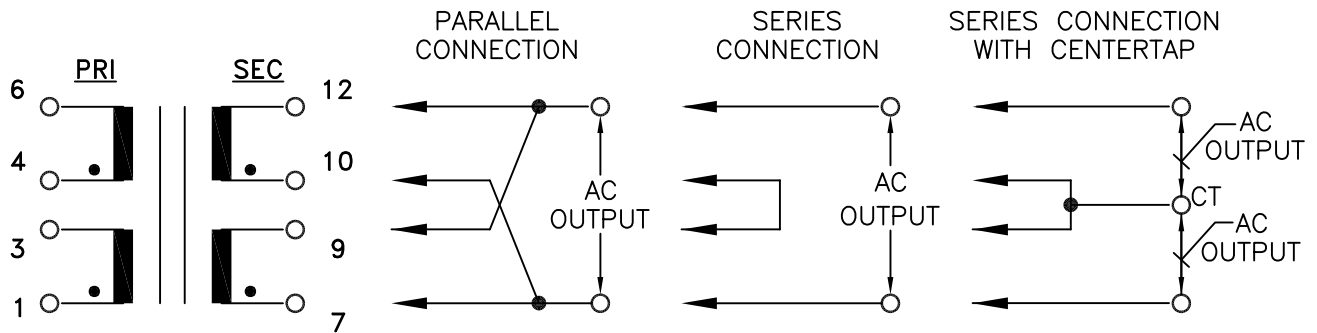
MODEL NUMBER
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F. Schematic Diagram:

PRIMARY INPUT CONNECTIONS



SECONDARY OUTPUT CONNECTIONS



G. Table A:

T= Time lag

| PART NO. | PARALLEL | | SERIES | | SERIES WITH CT | | OUTPUT | SECONDARY FUSE REQ'D EA. WINDING |
|--------------|----------|----------|----------|----------|----------------|----------|---------|----------------------------------|
| | AC VOLTS | RMS AMPS | AC VOLTS | RMS AMPS | AC VOLTS | RMS AMPS | | |
| PL20-10-130B | 5.0 | 4.00 | 10.0 | 2.00 | 5.0-CT-5.0 | 2.00 | 2X5.0V | T 2.00A |
| PL20-12-130B | 6.3 | 3.20 | 12.6 | 1.60 | 6.3-CT-6.3 | 1.60 | 2X6.3V | T 1.60A |
| PL20-16-130B | 8.0 | 2.50 | 16.0 | 1.25 | 8.0-CT-8.0 | 1.25 | 2X8.0V | T 1.25A |
| PL20-20-130B | 10.0 | 2.00 | 20.0 | 1.00 | 10.0-CT-10.0 | 1.00 | 2X10.0V | T 1.00A |
| PL20-24-130B | 12.0 | 1.66 | 24.0 | 0.83 | 12.0-CT-12.0 | 0.83 | 2X12.0V | T 1.00A |
| PL20-28-130B | 14.0 | 1.44 | 28.0 | 0.72 | 14.0-CT-14.0 | 0.72 | 2X14.0V | T 0.80A |
| PL20-36-130B | 18.0 | 1.12 | 36.0 | 0.56 | 18.0-CT-18.0 | 0.56 | 2X18.0V | T 0.63A |

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DRAWING CONTROL NO.
P-A1-12260
ACAD/MXFMR/A1122602.DWG

REV
F

MODEL DESCRIPTION
POWER
TRANSFORMER

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

MODEL SPECIFICATION

PL20-XX-130B

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

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- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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