

ISSUE 2  
REVISED AND  
REDRAWN ON  
CAD/CAM  
3/31/92 TS

ISSUE 3  
TEMECULA  
WAS CARSON  
ADDED T9320  
ADDED SAFETY  
7/26/95 TS

ISSUE 4  
REVISED DIM  
30.5(1.20)MAX  
WAS  
31.8(1.25)MAX  
02/01/96 TS

## A. Electrical Specifications (@ 25 ° C)

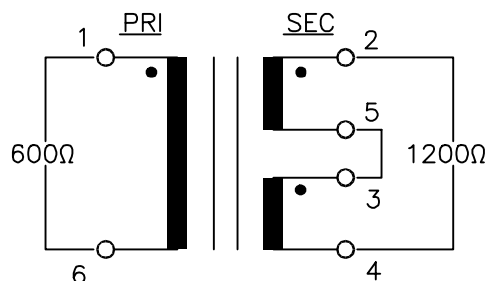
1. Pri Source Impedance; 600  $\Omega$
2. Sec Load Impedance; 600  $\Omega$  / 600  $\Omega$
3. Pri DC Unbalance Current; 50 mA
4. Operating Level; -45 dBm to +10 dBm
5. Insertion Loss;
  - 1.6 dB MAX @ 1.0 KHz 0 dBm and DC50mA
6. Frequency Response (relative to 1.0 KHz)
  - +0.3dB -0.7dB @ 500 to 3500 Hz 0 dBm and DC50mA
  - +0.3dB -1.6dB @ 300 to 3500 Hz 0 dBm and DC50mA
7. Pri Impedance; 600  $\Omega$   $\pm$ 10% @ 500 Hz 0 dBm and DC50mA
8. Pri Return Loss; 14 dB MIN @ 1.0 KHz 0 dBm and DC50mA
9. Longitudinal Balance; 60 dB MIN @ 200 to 1000 Hz  
40 dB MIN @ 4000 Hz
10. Total Harmonic Distortion; 0.5% MAX @ 300 to 3500 Hz 0 dBm and DC50mA
11. DC Resistance;
  - (1-6) = 75  $\Omega$   $\pm$ 10%
  - (2-4) = 170  $\Omega$   $\pm$ 10% (3 and 5 shorted)
12. Turns Ratio; (1-6) : (2-4) = 1 : 1.41  $\pm$ 2% (3 and 5 shorted)  
(2-5) : (3-4) = 1 : 1.00  $\pm$ 1%
13. Dielectric Strength;
  - 1500 Vrms 1 minute @ Pri to Sec, Pri to Core
  - 200 DC 1 minute @ Sec to Sec

B. Marking; TTC-174, TAMURA, T9320, MICROTRAN, date code and country of origin

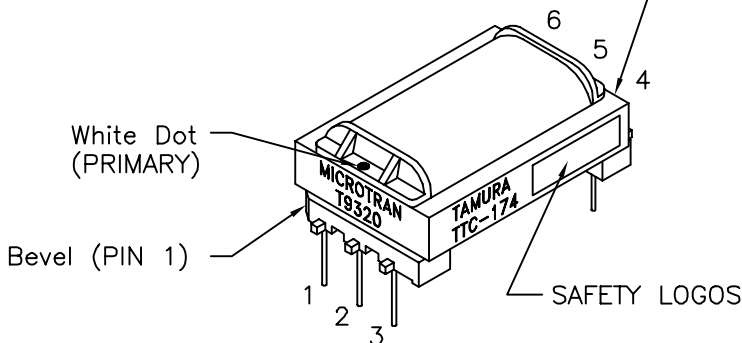
C. Safety; CSA 22.2 No. 66-M1988, File No. LR81383

UL1863 File No. E142035

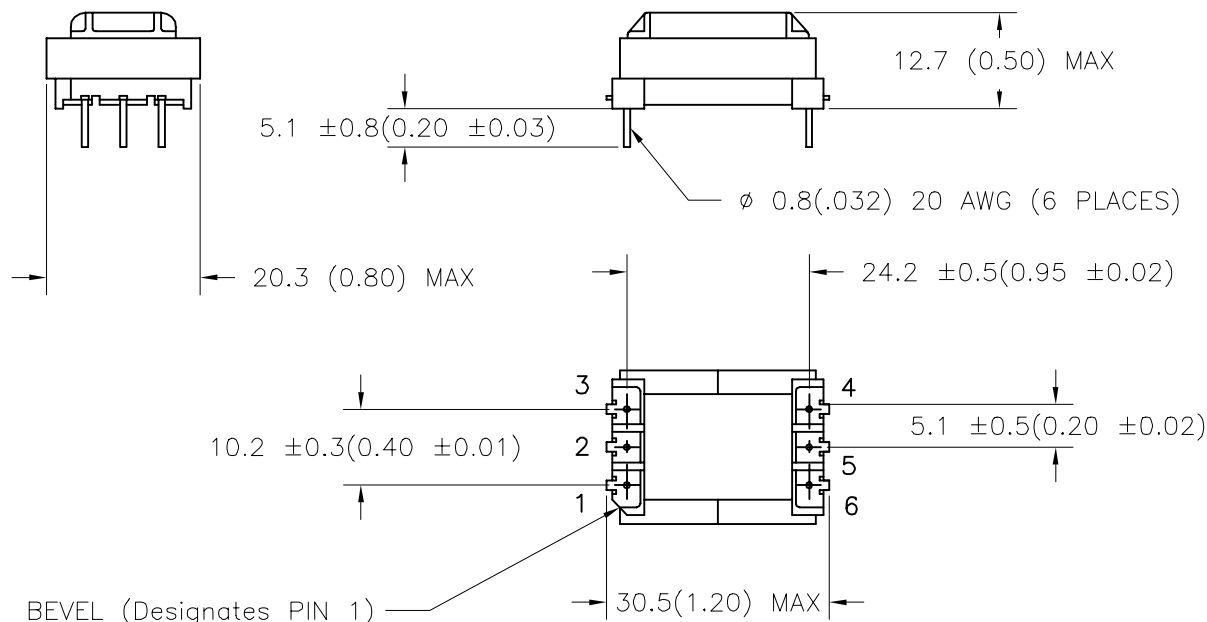
## D. Schematic Diagram



Date code and country of origin



## E. Mechanical Specifications



## TOLERANCES (mm)

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

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QUALITY CONTROL:

V. Casey

APPROVED:

V. Casey

DWG CONTROL NO.

P-A1-10046

ACAD/TTC/A1100461.DWG

REV

C

HYBRID

TRANSFORMER

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TTC-174

MODEL SPECIFICATION

DIM: mm(In) SCL: NONE SH: 1 OF 1

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UL# E142035



MODEL NUMBER

TTC-174