

REVISION B
REVISED AND
REDRAWN ON
CAD/CAM
1/9/92 HA

REVISION C
TEMECULA
-WAS-
CARSON
1/13/93 TS

REVISION D
ADDED SAFETY
REFORMATTED
5/3/95 TS

REVISION E
NEW
FORMAT
06/30/98 TS

HIGH PERFORMANCE LOW PROFILE TELECOMMUNICATION COUPLING TRANSFORMER

A. Electrical Specifications (@ 25°C)

1. Pri Source Impedance; 600Ω
2. Sec Load Impedance; 600Ω
3. Pri DC Unbalance Current; 90mA (1-2)
4. Operating Level; -45dBm to +10dBm
5. Insertion Loss;
1.9dB MAX @ 1.8KHz 0dBm and DC90mA
6. Frequency Response (relative to 1.8KHz)
+0.3dB, -1.3dB @ 500 to 3,500Hz 0dBm and DC90mA
+0.3dB, -2.5dB @ 300 to 3,500Hz 0dBm and DC90mA
7. Pri Impedance; 600Ω ±20% @ 500 to 1,800Hz 0dBm and DC90mA
8. Pri Return Loss; 14dB MIN @ 1.8KHz 0dBm and DC90mA
9. Longitudinal Balance; 60dB MIN @ 200 to 4,000Hz
10. Total Harmonic Distortion; 1.0% MAX @ 300 to 3,500Hz 0dBm and DC90mA
11. DC Resistance;
(1-2) = 75Ω ±10%
(3-4) = 100Ω ±10%
12. Turns Ratio; (1-2) : (4-3) = 1 : 1.04 ±2%
13. Dielectric Strength;
1500Vrms 60Hz 1 minute @ Pri to Sec, Pri to Core
1500Vrms 60Hz 1 minute @ Sec to Core

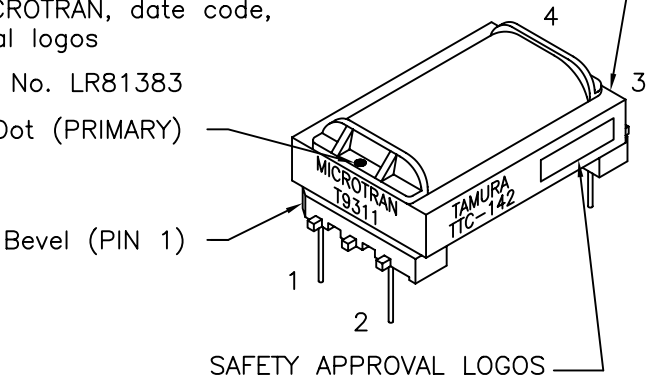
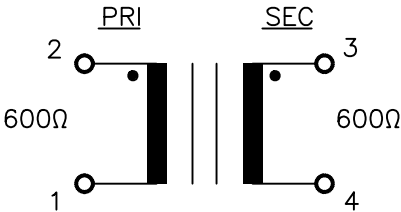
Date code and country of origin

B. Marking; TTC-142, TAMURA, T9311, MICROTRAN, date code, country of origin and safety approval logos

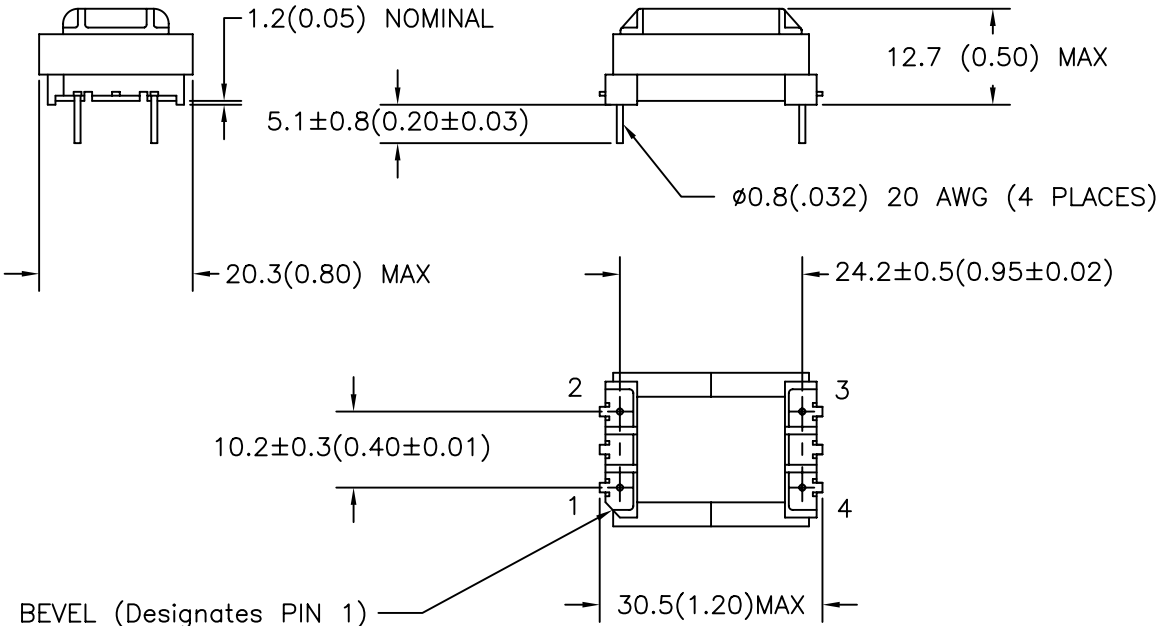
C. Safety; CSA C22.2 No. 66-M1988 File No. LR81383
UL 1863 File No. E142035

White Dot (PRIMARY)

D. Schematic Diagram



D. Mechanical Specifications



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DWG CONTROL NO.
P-A1-10033
ACAD\TTC\A1100331.DWG

REV
E

TELECOMMUNICATION COUPLING
TRANSFORMER

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TTC-142

MODEL SPECIFICATION

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

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MODEL NUMBER

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