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sales@integrated-circuit.com

REV. Status

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
REVISION F ADDED RoHS. UL1459 WAS UL1863. 5-26-09 M.P.

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 3.5KHz 0dBm and DC90mA
+0.3dB, -2.5dB @ 300 to 3.5KHz 0dBm and DC90mA
7. Pri Impedance; 600Ω ±20% @ 500 to 1.8KHz 0dBm and DC90mA
8. Pri Return Loss; 14dB MIN @ 1.8KHz 0dBm and DC90mA
9. Longitudinal Balance; 60dB MIN @ 200 to 4KHz
10. Total Harmonic Distortion; 1.0% MAX @ 300 to 3.5KHz 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



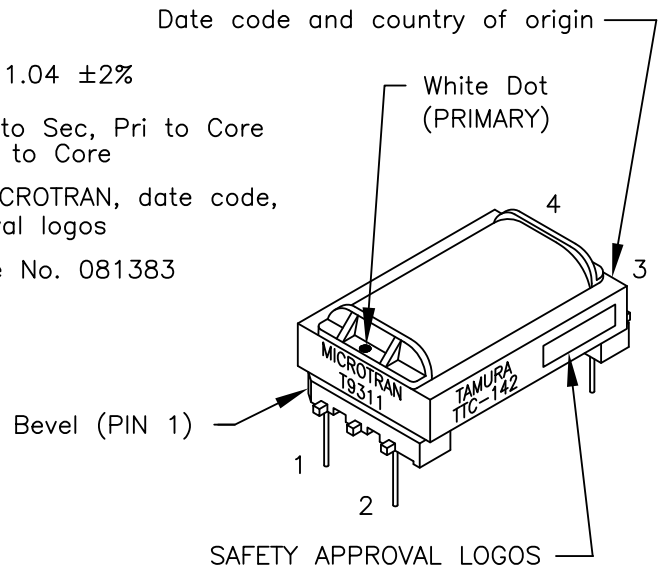
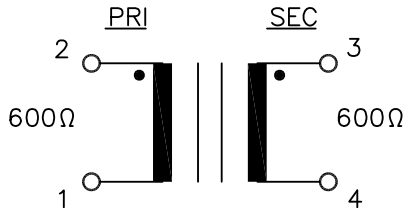
MODEL NUMBER

TTC-142

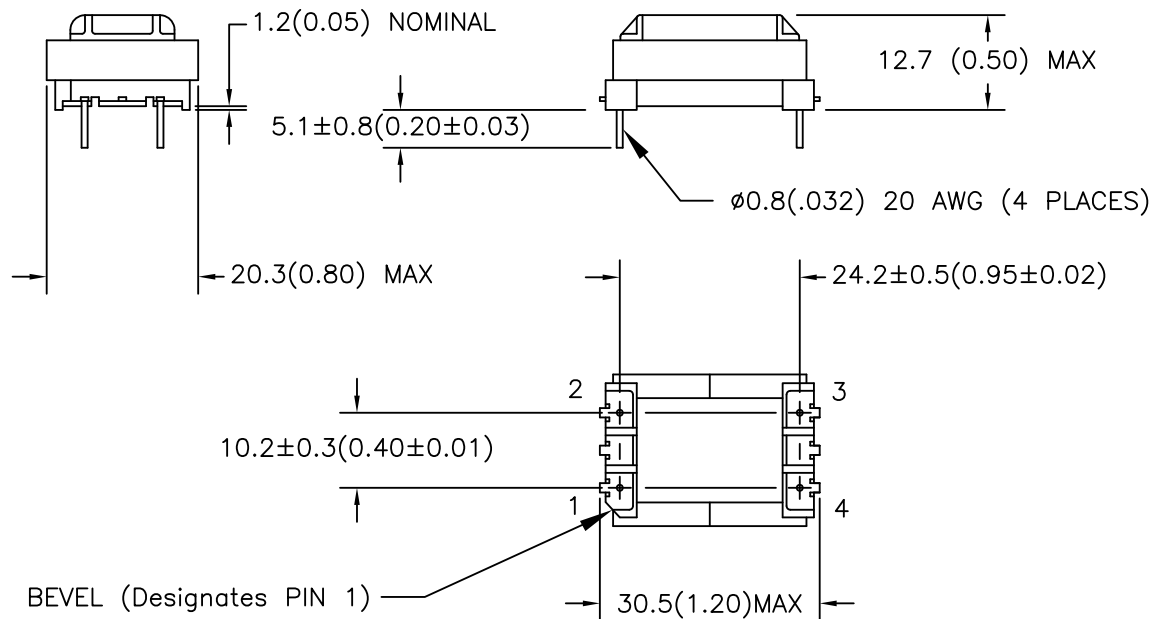
B. Marking; TTC-142, TAMURA, T9311, MICROTRAN, date code, country of origin and safety approval logos

C. Safety; CSA C22.2 No. 66-M1988 File No. 081383
UL1459 File No. E142035

D. Schematic Diagram



D. Mechanical Specifications



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P-A1-10033 ACAD\TTC\A1100331.DWG	TELECOMMUNICATION COUPLING TRANSFORMER	MODEL SPECIFICATION TTC-142	REV F
CONTENTS OF THIS DRAWING ARE SUBJECT TO CHANGE CONTROL	TAMURA CORPORATION OF AMERICA 43352 BUSINESS PARK DRIVE, TEMECULA, CA. 92590-6624 (951) 699-1270 FAX 9516769482	DIM: mm[In] SCL: NONE SHT 1 OF 1	
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