

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)

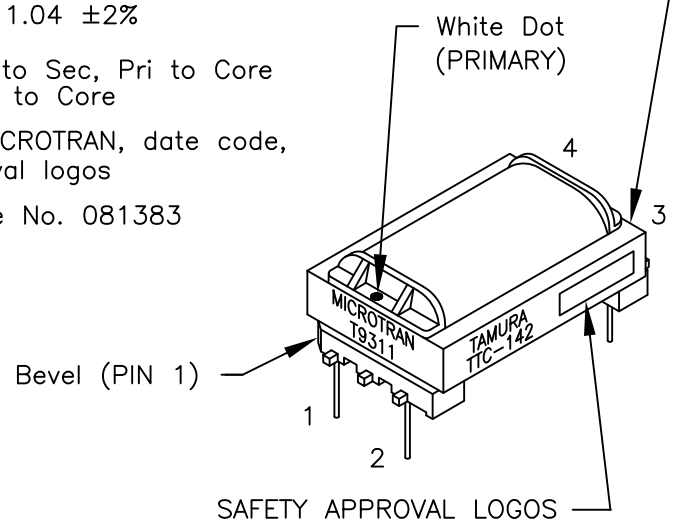
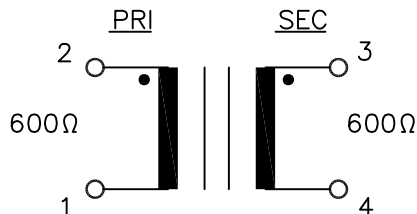
1. Pri Source Impedance; 600Ω
2. Sec Load Impedance; 600Ω
3. Pri DC Unbalance Current; 90mA (1-2)
4. Operating Level; -45dBm to +10dBm
5. Insertion Loss;
1.9dB MAX @ 1.8KHz 0dBm and DC90mA
6. Frequency Response (relative to 1.8KHz)
+0.3dB, -1.3dB @ 500 to 3.5KHz 0dBm and DC90mA
+0.3dB, -2.5dB @ 300 to 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) = 75 Ω ±10%
(3-4) = 100 Ω ±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

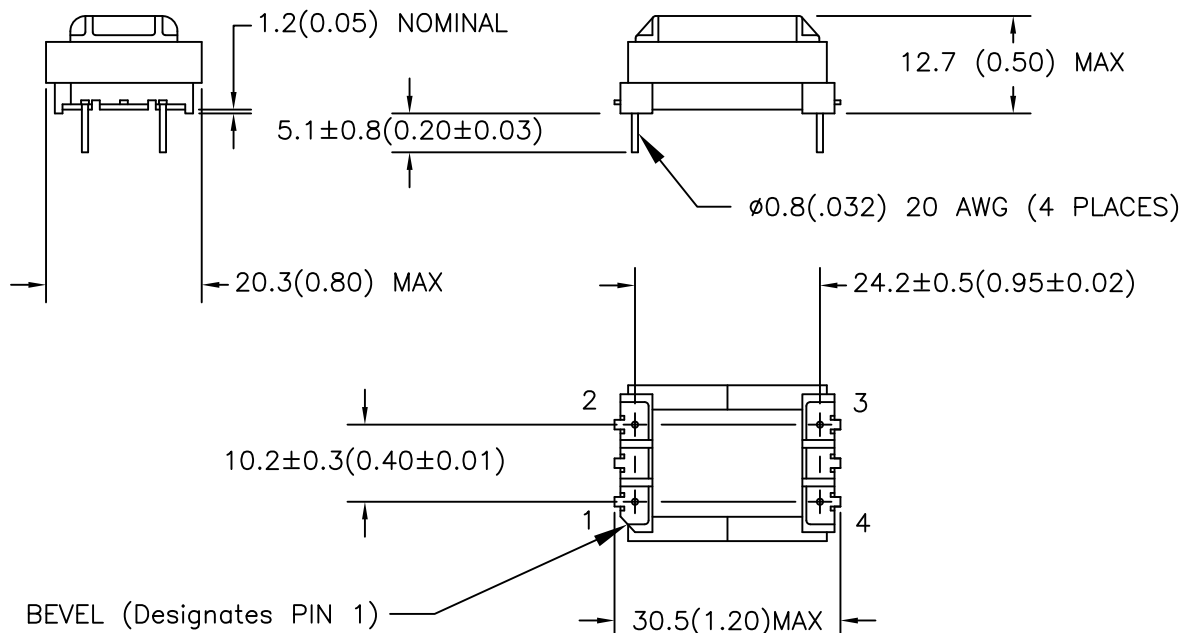
B. Marking; TTC-142, TAMURA, T9311, MICROTRAN, date code,
country of origin and safety approval logos

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

D. Schematic Diagram



D. Mechanical Specifications



PREPARED BY:
E. BRINER

ENGINEER:
M. PITCHAI

SAFETY ENGINEER:
B.O.

APPROVED:
T. BROOKS

P-A1-10033
ACAD\TTC\A1100331.DWG

TELECOMMUNICATION COUPLING
TRANSFORMER

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

MODEL SPECIFICATION
TTC-142

REV
F

DIM: mm[In] SCL: NONE SHT 1 OF 1

PROPRIETARY NOTICE: THIS DRAWING PRINT OR DOCUMENT AND SUBJECT MATTER DISCLOSED HEREIN ARE PROPRIETARY ITEMS TO WHICH TAMURA RETAINS THE EXCLUSIVE RIGHT OF DISSEMINATION, REPRODUCTION, MANUFACTURE AND SALE. THIS DRAWING, PRINT OR DOCUMENT IS SUBMITTED IN CONFIDENCE FOR CONSIDERATION BY THE RECIPIENT ALONE UNLESS PERMISSION FOR FURTHER DISCLOSURE IS EXPRESSLY GRANTED IN WRITING.

MODEL NUMBER

TTC-142