



REV. Status

REVISION -  
01/08/92 HA

REVISION A  
TEMECULA  
WAS CARSON  
ADDED SAFETY  
UPDATED NP  
REVISED DIM  
20.3(0.80)MAX  
WAS  
19.8(0.781)MAX  
01/06/96 TS

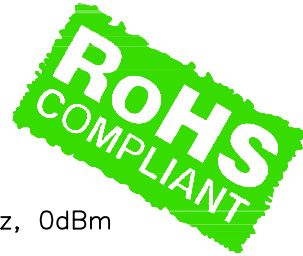
REVISION B  
CHANGED  
A.8  
10/08/02 MP

REVISION C  
ADDED RoHS.  
UL1459 WAS  
UL1863  
10/17/06 MP

REVISION D  
DC RES. ±20%  
WAS MAX. ADDED  
"2ND EDITION" TO  
UL 1459  
01/18/08 YS

A. Electrical Specifications (@ 25°C)

1. Pri Source Impedance; 600 Ω CT
2. Sec Load Impedance; 600 Ω CT
3. Operating Level; -45dBm to +7dBm
4. Insertion Loss;  
1.2dB MAX @ 1KHz, 0dBm
5. Frequency Response (relative to 1KHz);  
±0.5dB @ 300Hz to 3.5KHz, 0dBm
6. Primary Impedance; 600Ω ±10% @ 300Hz to 3.5KHz, 0dBm
7. Return Loss; 26dB MIN @ 300Hz 0dBm
8. Longitudinal Balance; 60dB MIN @ 200Hz to 1KHz  
40dB MIN @ 4KHz
9. DC Resistance;  
(1-3)= 46Ω ± 20%  
(4-6)= 63Ω ± 20%
10. Turns Ratio; (1-3) : (4-6) = 1 : 1.06 ±2%
11. Dielectric Strength;  
1500Vrms, 1 minute @ Pri to Sec, Pri to Core  
1000Vrms, 1 minute @ Sec to Core



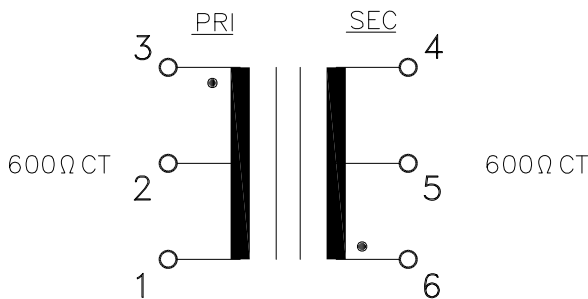
MODEL NUMBER  
TTC-03



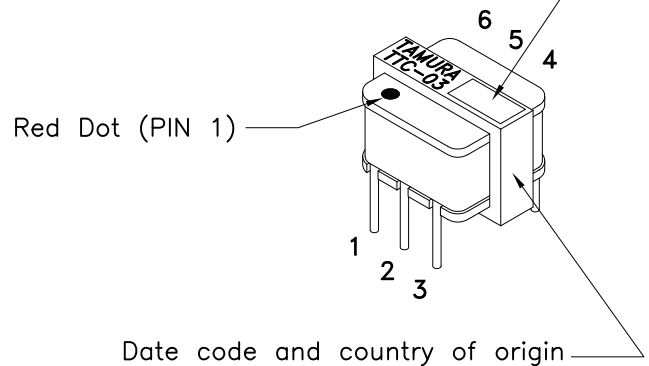
B. Marking; TTC-03, TAMURA, date code, country of origin, and safety agency logos

C. Safety: CSA C22.2 No. 66-M1988 File No. 081383  
UL 1459 2nd Edition File No. E142035

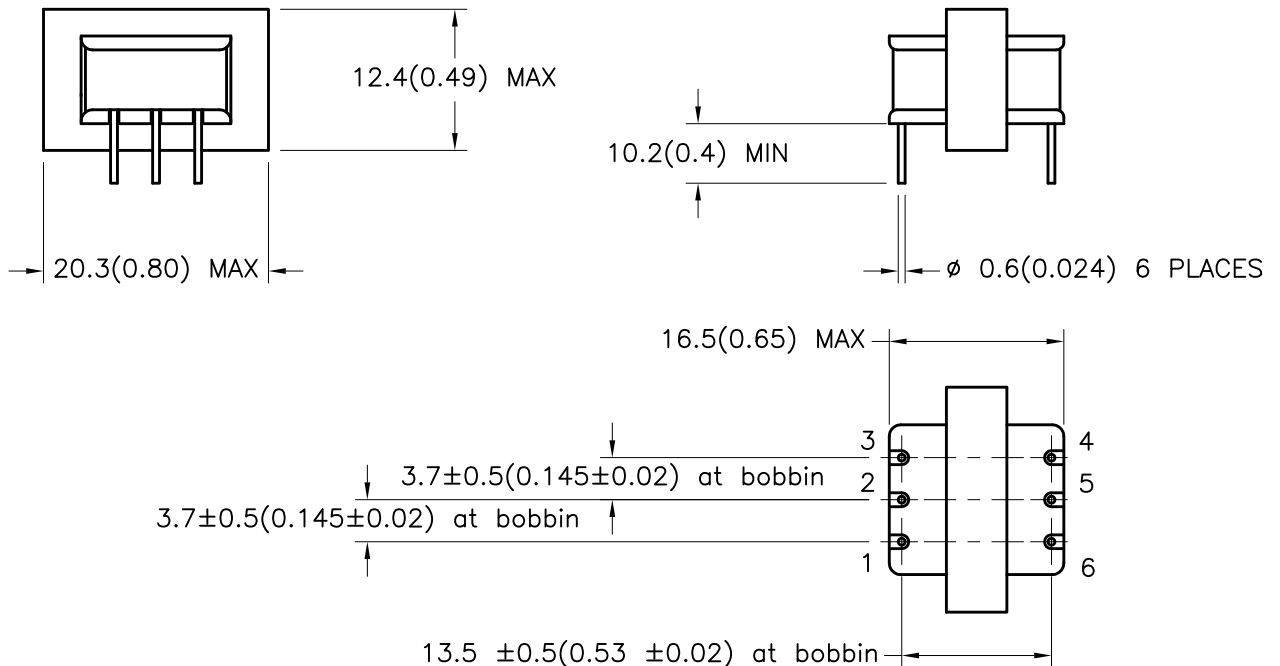
D. Schematic Diagram



Safety approval logos



E. Mechanical Specifications



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

PREPARED BY:

K. BRENNAN

ENGINEER:  
M. PITCHAI

DWG CONTROL NO. REV  
P-A1-10519 D  
ACAD\TTC\A1105191.DWG

TELECOMMUNICATION COUPLING  
TRANSFORMER

TTC-03

SAFETY ENGINEER  
B. OCONNELL

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**TAMURA CORPORATION OF AMERICA**  
43352 BUSINESS PARK DRIVE, TEMECULA, CA. 92590-6624  
(951) 699-1270 FAX 9516769482

MODEL SPECIFICATION  
DIM: mm[In] SCL: 1/1 SH: 1 OF 1

APPROVED:  
Y. SEKIGUCHI

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