

REV. Status

REVISION -  
05/04/04 MP

REVISION A  
ADDED REFLOW  
PROFILE & RoHS  
11/13/07 YS

REVISION B  
REVISED TEMP  
RATING  
06/09/15 MP

MINIATURE ENCAPSULATED TELECOMMUNICATION V.90 MODEM TRANSFORMER

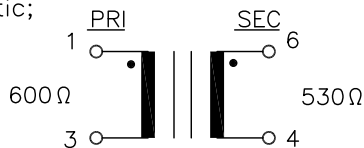
A. Electrical Specifications (@ 25° C)

1. Primary Impedance; 600Ω
2. Secondary Impedance; 530Ω
3. Insertion Loss: 2.0dB MAX @ 2KHz, 0dBm
4. Frequency Response; ±0.40dB @ 200Hz to 4KHz, 0dBm
5. Longitudinal Balance;  
80dB MIN @ 200Hz to 4KHz, 0dBm
6. Return Loss; 18dB MIN @ 200Hz to 4KHz, 0dBm
7. Primary Inductance; 3.0H MIN @ 200Hz, 0.78Vrms, Lp  
Measured (1-3)
8. Leakage Inductance; 5.0mH MAX @ 1KHz, 0.78Vrms  
Measured (1-3) with 6 & 4 shorted
9. DC Resistance;  
(1-3):90Ω ±15%  
(6-4):90Ω ±15%
10. Turns Ratio; (1-3):(6-4)=1:1.00 ±2%
11. Total Harmonic Distortion;  
-72dB MAX @ 600Hz, -10dBm (-77dB TYP)
12. Dielectric Strength; 1875Vrms 1 second @ Pri-Sec

B. Marking; TTC-5037H, TAMURA, date code and country of origin  
"H" designates Safety Approved family classification.

C. Safety; Certified to UL60950, EN60950

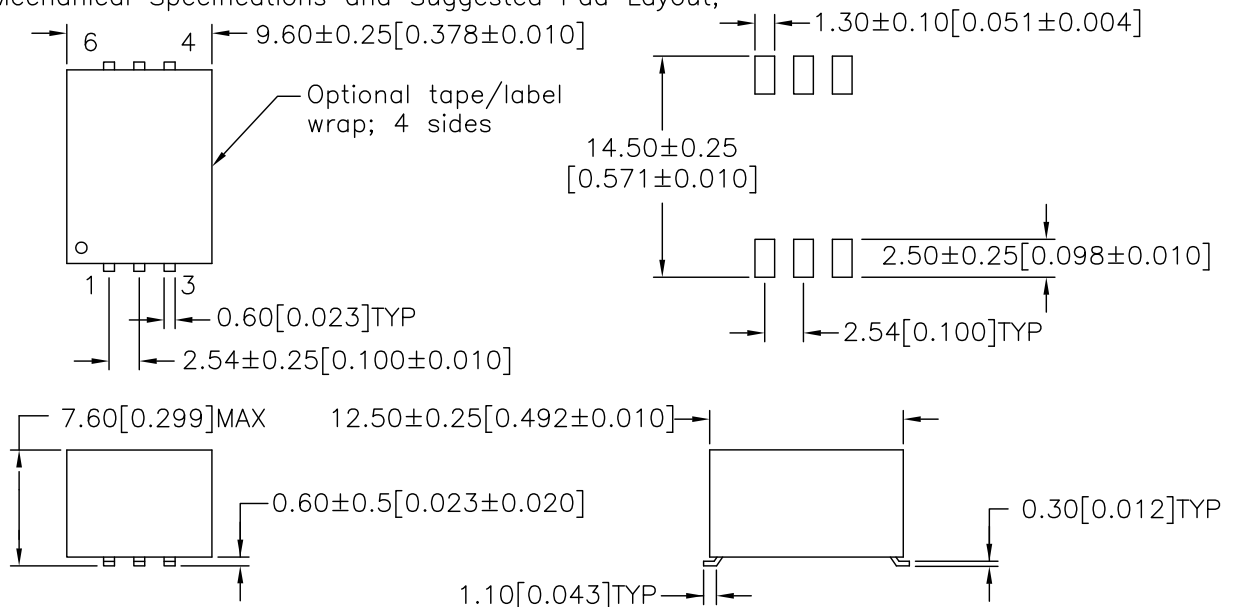
D. Schematic;



E. Operating Temperature: -20 to +85°C  
Storage Temperature: -20 to +85°C

F. Suggested Reflow Profile (Terminal)  
Customer to determine proper profile based on actual conditions.

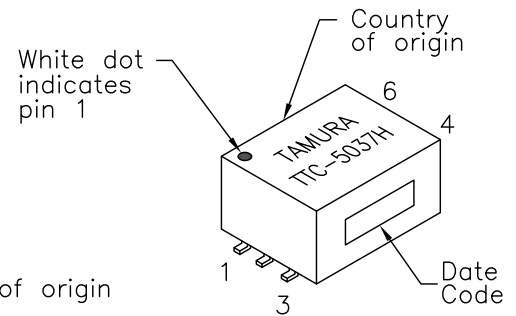
G. Mechanical Specifications and Suggested Pad Layout;



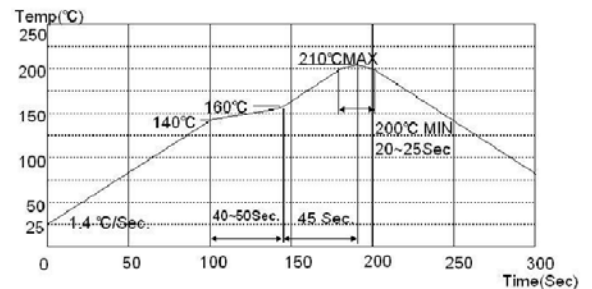
UL #E208555

MODEL NUMBER

TTC-5037



NOTE: Board washing is not recommended for these parts.



PREPARED BY:

C. POPPE

ENGINEER:

MATHI P.

SAFETY ENGINEER

DRAWING CONTROL NO.  
P-A1-13361

REV  
B

MODEL DESCRIPTION  
TELECOMMUNICATION V.90  
MODEM TRANSFORMER

**TAMURA CORPORATION OF AMERICA**  
1040 SOUTH ANDREASEN DRIVE, #100 ESCONDIDO, CA. 92029  
(951) 699-1270 FAX 7607400536

MODEL SPECIFICATION

TTC-5037

DIM: mm[In] SCL: 2/1 SH: 1 OF 1

APPROVED:

M. PITCHAI

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