

REV. Status

REVISION –
05/04/04 MPREVISION A
ADDED REFLOW
PROFILE & RoHS
11/13/07 YSREVISION B
REVISED TEMP
RATING
06/09/15 MP

MINIATURE ENCAPSULATED TELECOMMUNICATION V.90 MODEM TRANSFORMER

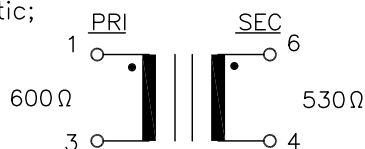
A. Electrical Specifications (@ 25° C)

1. Primary Impedance; 600 Ω
2. Secondary Impedance; 530 Ω
3. Insertion Loss: 2.0dB MAX @ 2KHz, 0dBm
4. Frequency Response; ± 0.40 dB @ 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):90 Ω $\pm 15\%$
(6–4):90 Ω $\pm 15\%$
10. Turns Ratio; (1–3):(6–4)=1:1.00 $\pm 2\%$
11. Total Harmonic Distortion;
–72dB MAX @ 600Hz, –10dBm (–77dB TYP)
12. Dielectric Strength; 1875Vrms 1 second @ Pri–Sec

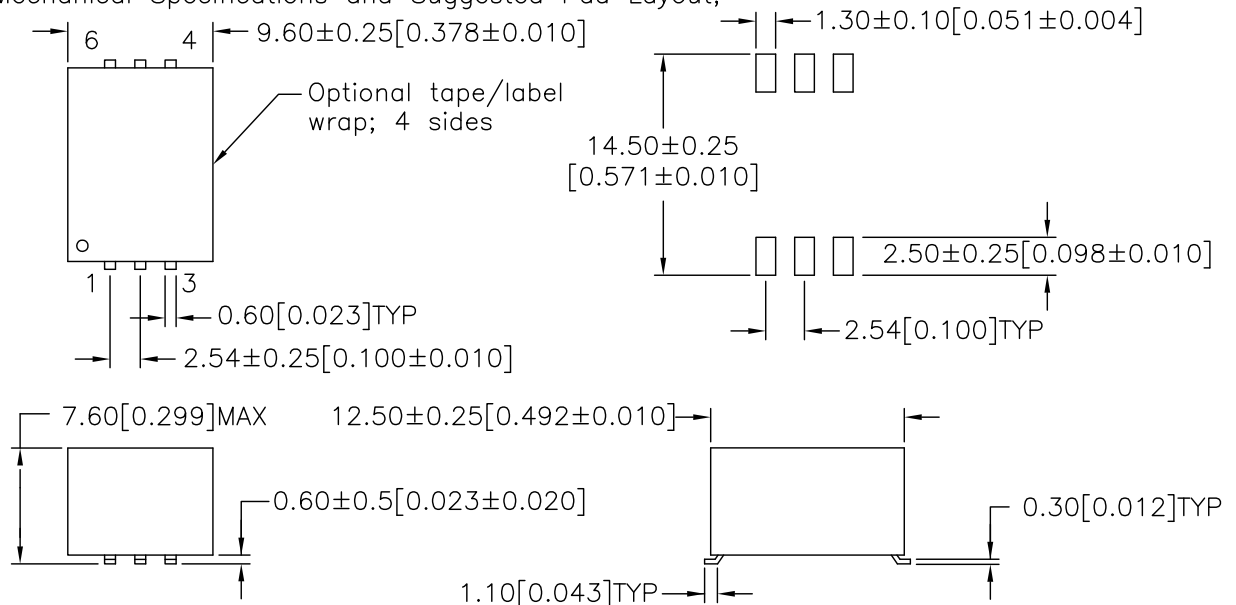
B. Marking; TTC–5037H, TAMURA, date code and country of origin
"H" designates Safety Approved family classification.

C. Safety; Certified to UL60950, EN60950

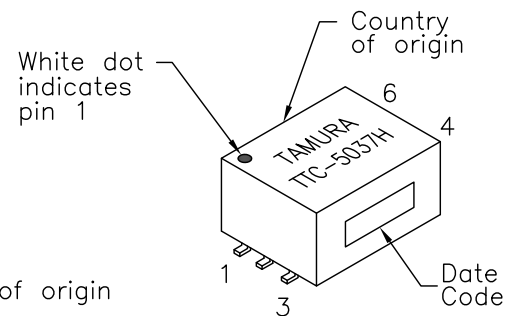
D. Schematic;

E. Operating Temperature: –20 to +85°C
Storage Temperature: –20 to +85°CF. Suggested Reflow Profile (Terminal)
Customer to determine proper profile based on actual conditions.

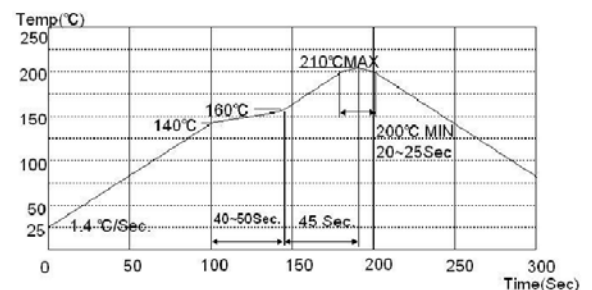
G. Mechanical Specifications and Suggested Pad Layout;



UL #E208555



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 TRANSFORMERTAMURA 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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MODEL NUMBER

TTC–5037