



# MINIATURE ENCAPSULATED TELECOMMUNICATION V.32 MODEM TRANSFORMER

MODEL NUMBER  
**TTC-5023**

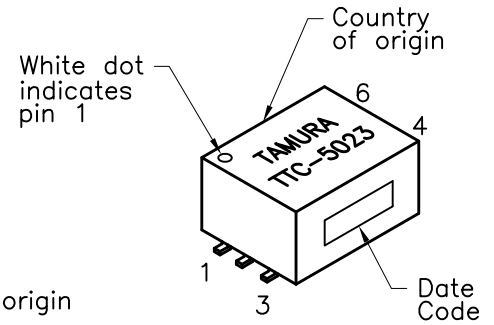
REV. Status
REVISION - 06/10/03 MP
REVISION A CHANGED DIMS. 03/10/08 MP
REVISION B ADDED REFLOW PROFILE & RoHS 11/01/07 YS

## A. Electrical Specifications (@ 25°C)

1. Primary Impedance; 600Ω
2. Secondary Impedance; 600Ω
3. Insertion Loss: 2.0dB MAX @ 2KHz, 0dBm
4. Frequency Response; ±0.25dB @ 200Hz to 4KHz, 0dBm
5. Longitudinal Balance;  
80dB MIN @ 200Hz to 4KHz, 0dBm
6. Return Loss; 14dB MIN @ 200Hz to 4KHz, 0dBm
7. Primary Inductance; 3.8H MIN @ 200Hz, 0.78Vrms, Lp Measured (1-3)
8. Leakage Inductance; 7mH MAX @ 1KHz, 0.78Vrms Measured (1-3) with 6 & 4 shorted
9. DC Resistance;  
(1-3):115Ω ±15%  
(6-4):115Ω ±15%
10. Turns Ratio; (1-3):(6-4)=1:1.00 ±2%
11. Total Harmonic Distortion;  
-76dB MAX @ 600Hz, -10dBm (-79dB TYP)
12. Dielectric Strength; 3000Vrms 1 minute @ Pri-Sec



UL #E208555



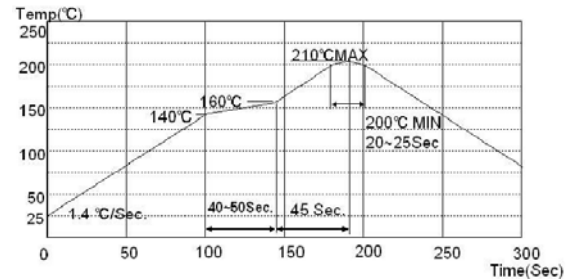
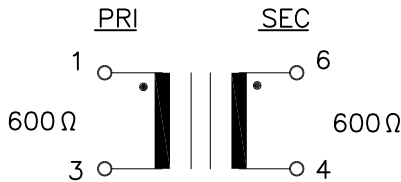
## B. Marking; TTC-5023, TAMURA, date code and country of origin

## C. Safety; Certified to UL60950, EN60950 (CB Report)

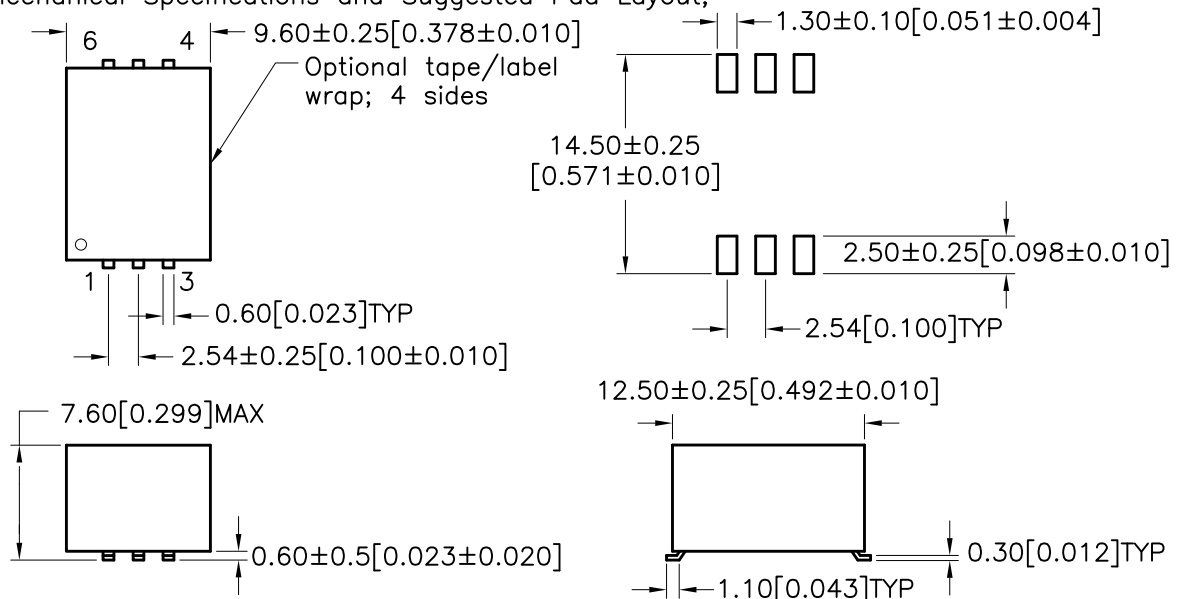
## D. Schematic;

## E. Suggested Reflow Profile (Terminal)

Customer to determine proper profile based on actual conditions



## F. Mechanical Specifications and Suggested Pad Layout;



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APPROVED:  
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DWG CONTROL NO. P-A1-12866  
ACAD\TTC\A1128661.DWG

REV  
B

TELECOMMUNICATION V.32  
MODEM TRANSFORMER

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**TTC-5023**  
MODEL SPECIFICATION  
DIM: mm(In) SCL: 2/1 SH: 1 OF 1

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