MINIATURE ENCAPSULATED TELECOMMUNICATION V.32 MODEM TRANSFORMER

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, \( L_p \) Measured (1–3)
   8. Leakage Inductance; 7μH 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

B. Marking; TTC-5023, TAMURA, date code and country of origin
C. Safety; Certified to UL60950, EN60950 (CB Report)

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;
   9.60±0.25[0.378±0.010]
   Optional tape/label wrap; 4 sides
   1.30±0.10[0.051±0.004]
   14.50±0.25[0.571±0.010]
   2.50±0.25[0.098±0.010]
   2.54[0.100]TYP
   12.50±0.25[0.492±0.010]
   0.60±0.5[0.023±0.020]
   0.30[0.012]TYP

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NOTE: Board washing is not recommended for these parts.