

REV. Status

PRELIMINARY
02/17/00 MPHDSL transformer designed for use with Brooktree HDSL IC chip BT8970
at 2320Kbps rates

A. Electrical Specifications (@ 25°C)

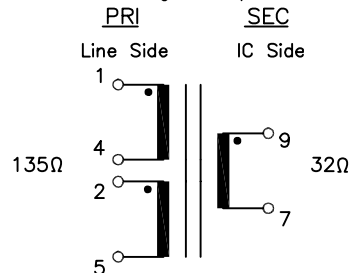
1. Primary (Line side) Impedance; 135 Ω
2. Secondary (IC side) Impedance; 32 Ω
3. Longitudinal Balance; 50dBm MIN @ 80KHz TO 580KHz, 0dBm (Pin 9 grounded)
4. Frequency Response; ± 0.25 dB @ 80KHz to 580KHz, 0dBm, 80KHz reference
5. Insertion Loss; 0.5dB MAX @ 80KHz, 0dBm
6. Total Harmonic Distortion; -70dB MAX @ 80KHz, 1.85Vrms
7. Return Loss; 16.5dB MIN @ 80KHz to 580KHz, 0dBm
8. Primary Open Circuit Inductance; 1.0mH $\pm 10\%$ @ 10KHz, 1.0Vrms Measured (1-5) with 2 and 4 shorted
9. Leakage Inductance; 11 μ H MAX @ 100KHz, 0.1Vrms Measured (1-5) with 2 & 4, and 7 & 9 shorted
10. DC Current; 160mA
11. DC Resistance; (1-4)=0.95 Ω $\pm 10\%$
(2-5)=0.95 Ω $\pm 10\%$
(9-7)=0.95 Ω $\pm 10\%$
12. Turns Ratio; (1-4):(2-5)=1:1.00 $\pm 2\%$
(7-9):(1-5)=1:2.00 $\pm 2\%$
2 & 4 shorted

13. Dielectric Strength; 1875Vrms 1 second @ Pri to Sec

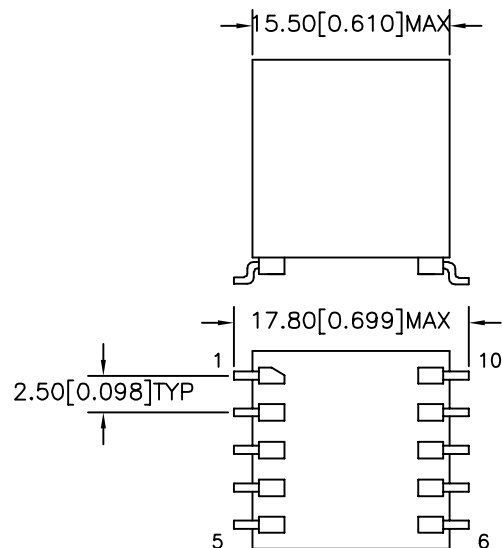
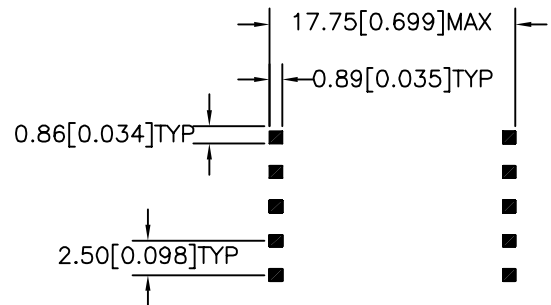
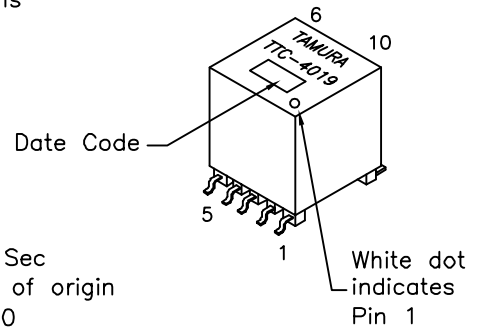
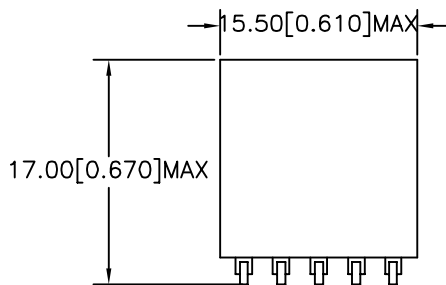
B. Marking; TTC-4019, TAMURA, date code and country of origin

C. Safety; Complies with UL1950 3rd Edition and IEC950

D. Schematic and Mounting Footprint;



E. Mechanical Specifications;



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DWG CONTROL NO.

P-A1-12356

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REV

PRE

HDSL

TRANSFORMER

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(909) 699-1270 FAX 9096769482**TTC-4019**

MODEL SPECIFICATION

DIM: mm(In) SCL: 2/1 SH: 1 OF 1

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