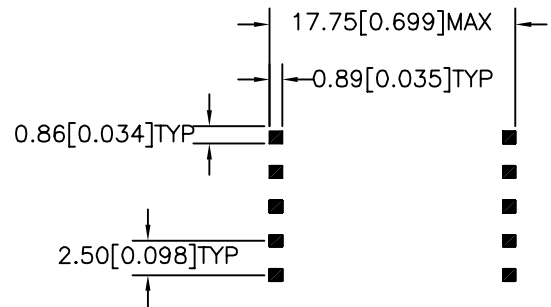
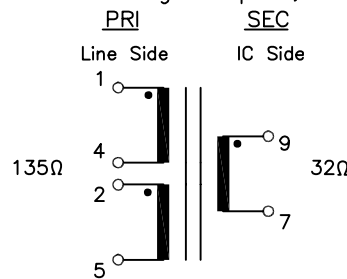
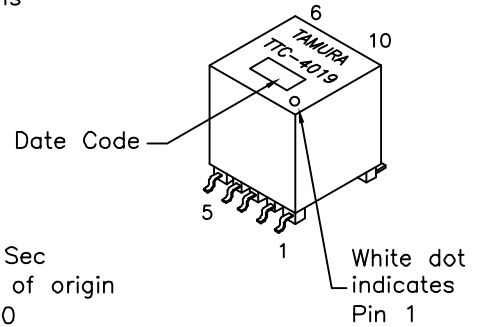


REV. Status  
PRELIMINARY  
02/17/00 MP

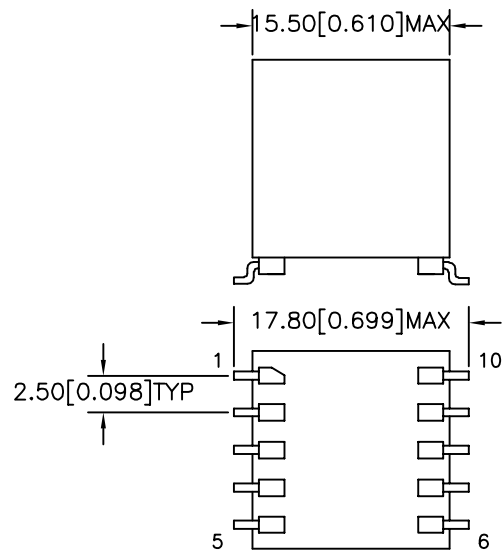
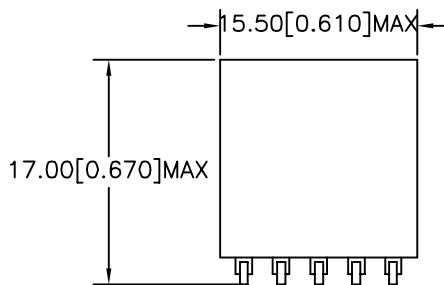
HDSL transformer designed for use with Brooktree HDSL IC chip BT8970 at 2320Kbps rates

MODEL NUMBER  
**TTC-4019**

- A. Electrical Specifications (@ 25 °C)
1. Primary (Line side) Impedance; 135Ω
  2. Secondary (IC side) Impedance; 32Ω
  3. Longitudinal Balance; 50dBm MIN @ 80KHz TO 580KHz, 0dBm (Pin 9 grounded)
  4. Frequency Response; ±0.25dB @ 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 ±10% @ 10KHz, 1.0Vrms Measured (1-5) with 2 and 4 shorted
  9. Leakage Inductance; 11μH 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 ±10%  
(2-5)=0.95 Ω ±10%  
(9-7)=0.95 Ω ±10%
  12. Turns Ratio; (1-4):(2-5)=1:1.00±2%  
(7-9):(1-5)=1:2.00±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;



PREPARED BY:

D. Rund

ENGINEER:

M. Pitchai

QUALITY CONTROL:

D. Kelley

APPROVED:

J. Coleman

DWG CONTROL NO.  
P-A1-12356  
ACAD\TTC\A1123561.DWG

REV  
PRE

HDSL  
TRANSFORMER

**TAMURA CORPORATION OF AMERICA**  
43352 BUSINESS PARK DRIVE, TEMECULA, CA. 92590-6624  
(909) 699-1270 FAX 9096769482

**TTC-4019**

MODEL SPECIFICATION

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

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