

REV. Status

PRELIMINARY  
01/12/00 NS

PRELIMINARY 1  
CHANGED ISO,  
E, A.6.~A.13.  
02/14/00 MP

HDSL transformer for use with Brooktree HDSL IC chips BT8970/BT8921 at 784kbps rate

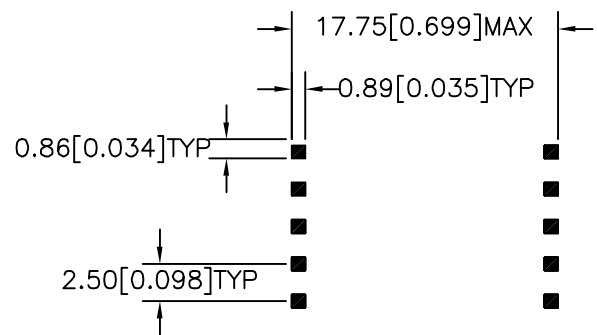
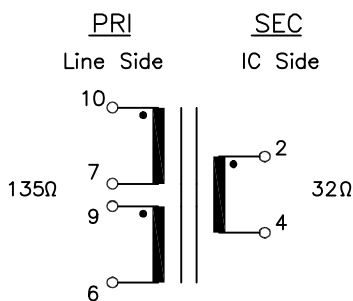
A. Electrical Specifications (@ 25°C)

1. Primary (Line side) Impedance; 135Ω
2. Secondary (IC side) Impedance; 32Ω
3. Frequency Response; ±0.1dB @ 40KHz to 200KHz, 0dBm
4. Insertion Loss; 0.4dB MAX @ 200KHz, 0dBm
5. Longitudinal Balance; 53dB MIN @ 40KHz to 200KHz, 0dBm (Pin 2 grounded)
6. Total Harmonic Distortion; -70dB MAX @ 40KHz, 14dBm
7. Return loss; 20dB MIN @ 40K to 200KHz, 0dBm
8. Primary Open Circuit Inductance; 3.0mH ±6% @ 10KHz, 1.0Vrms Measured (10-6) with 7 and 9 shorted
9. Leakage Inductance; 11μH MAX @ 100KHz, 0.1Vrms Measured (10-6) with 4 & 2, and 9 & 7 shorted
10. DC Current; 160mA
11. DC Resistance; (10-7)+(9-6)=2.5Ω MAX (2-4)=1.0Ω MAX
12. Turns Ratio; (10-7):(9-6)=1:1.00±2% (2-4):(10-6)=1:2.00±2% 7 & 9 shorted
13. Dielectric Strength; 1875Vrms 1 second @ Pri to Sec

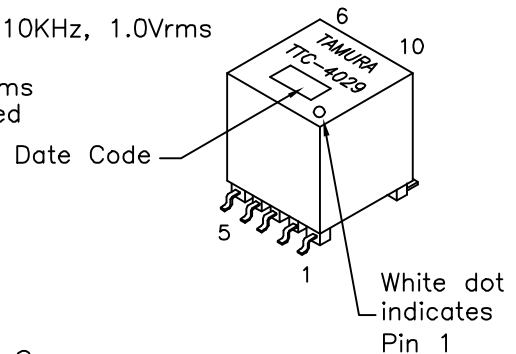
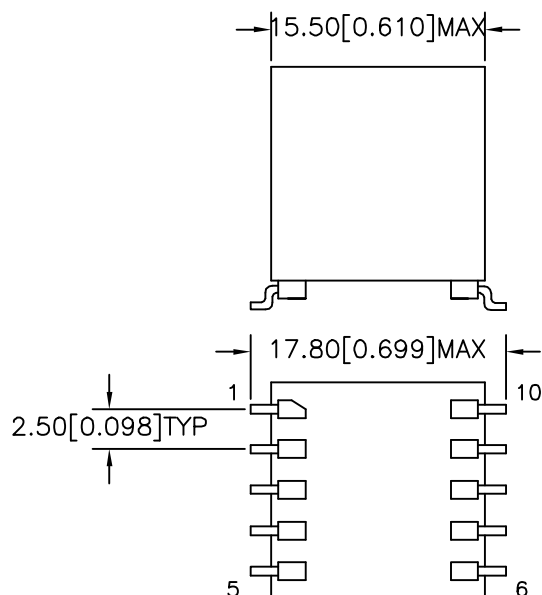
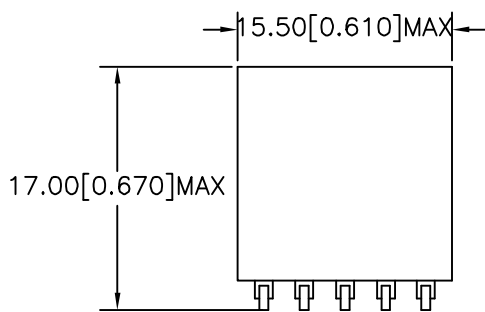
B. Marking; TTC-4029, TAMURA, date code and country of origin

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

D. Schematic and Mounting Footprint



E. Mechanical Specifications



MODEL NUMBER

TTC-4029

PREPARED BY:

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ENGINEER:

M. Pitchai

QUALITY CONTROL:

D. Kelley

APPROVED:

J. Coleman

DWG CONTROL NO.  
P-A1-12298  
ACAD\TTC\A1122981.DWG

REV  
PR1

HDSL SURFACE MOUNT  
TRANSFORMER

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

TTC-4029

MODEL SPECIFICATION

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

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