

REV. Status

PRELIMINARY  
02/23/00 MPHDSL transformer designed for use with Brooktree BT8960 chipset  
at 416Kbps rates

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

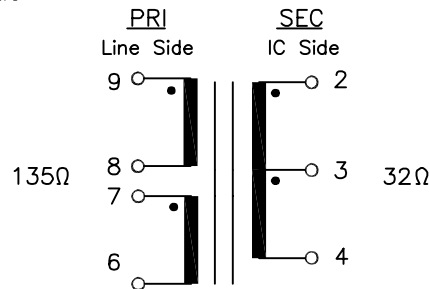
1. Primary (Line side) Impedance; 135Ω
2. Secondary (IC side) Impedance; 32Ω
3. Longitudinal Balance; 55dB TYP @ 104KHz, 0dBm
4. Return Loss; 16.5dB MIN @ 40KHz to 320KHz
5. Total Harmonic Distortion; -70dB TYP @ 104KHz, 6.0Vp-p
6. Primary Open Circuit Inductance; 3.5mH ±10% @ 10KHz, 0.1Vrms  
Measured (9-6) with 8 and 7 shorted
7. Leakage Inductance; 12μH MAX @ 100KHz, 0.1Vrms  
Measured (9-6) with 8 & 7, and 4 & 2 shorted
8. DC Current; 70mA
9. DC Resistance;  
(2-4) = 2.2Ω MAX  
(6-7) = 2.2Ω MAX  
(8-9) = 2.2Ω MAX
10. Turns Ratio; (7-6):(9-8)=1:1.00±2%  
(2-4):(9-6)=1:2.00±2%  
7 & 8 shorted

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

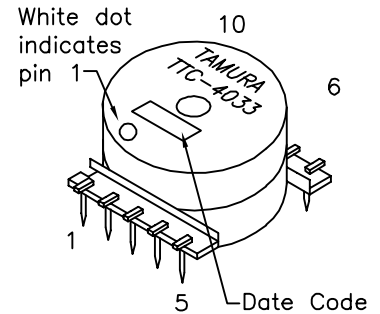
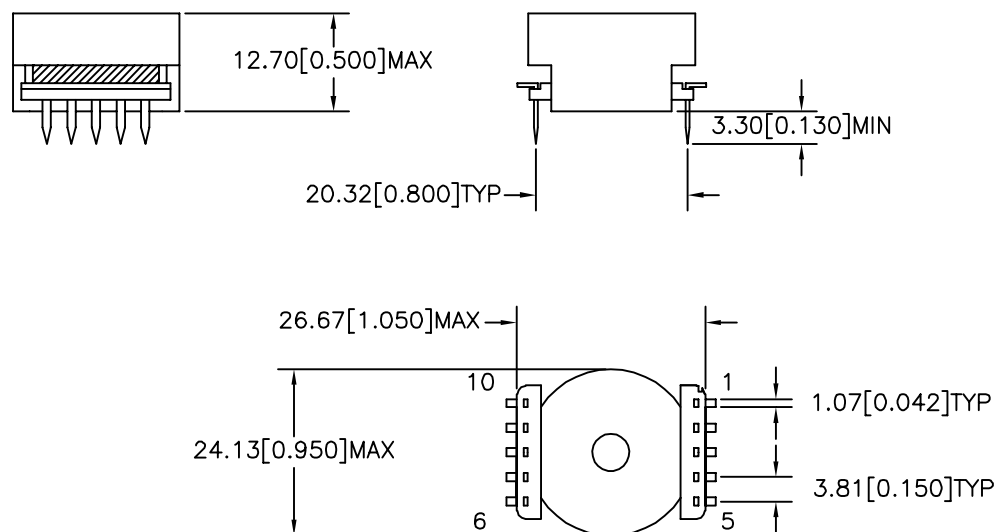
## B. Marking; TTC-4033, TAMURA, date code and country of origin

## C. Safety: Complies with UL1950

## D. Schematic



## E. Mechanical Specifications



MODEL NUMBER

TTC-4033

PREPARED BY:

D. Rund

ENGINEER:

M. Pitchai

QUALITY CONTROL:

D. Kelley

APPROVED:

J. Coleman

DWG CONTROL NO.  
P-A1-12365  
ACAD\TTC\A1123651.DWGREV  
PREHDSL  
TRANSFORMER

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

TTC-4033

MODEL SPECIFICATION

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

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