

REV. Status

PRELIMINARY
03/05/01 MP

PRELIMINARY 1
CHANGED
A.3, A.5,
MARKING &
PAD LAYOUT.
03/18/02 MP

HDSL2 transformer designed for use with Globespan chip set

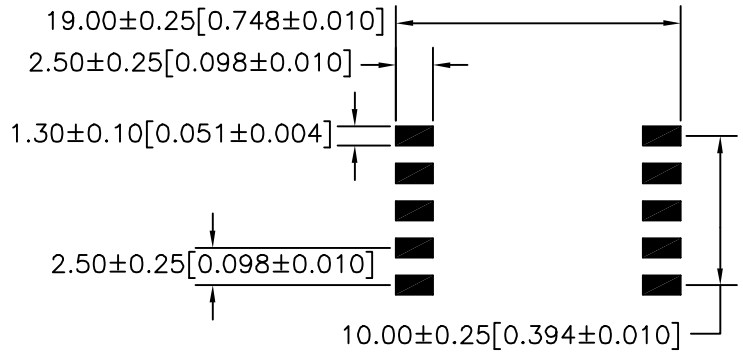
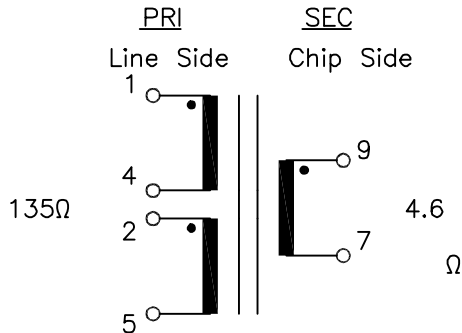
A. Electrical Specifications (@ 25°C)

1. Primary (Line Side) Impedance; 135Ω
2. Secondary (IC Side) Impedance; 4.6Ω
3. Longitudinal Balance; 60dB MIN @ 20KHz to 250KHz, 0dBm (Per ITU method pin 9 grounded)
4. Insertion Loss; 0.50dB MAX @ 100KHz, 0dBm
5. Frequency Response; ±0.50dB @ 17KHz to 600KHz, 100KHz Reference
6. Primary Open Circuit Inductance; 3.0mH ±6% @ 10KHz, 0.1Vrms Measured (1-5) with 2 and 4 shorted
7. Leakage Inductance; 12μH MAX @ 100KHz, 0.1Vrms Measured (1-5) with 4 & 2, and 9 & 7 shorted
8. Interwinding Capacitance; 50pF MAX @ 100KHz, 0.1Vrms Measured (1-9) with 2 & 4 shorted
9. Total Harmonic Distortion; -90dB MAX @ 40KHz
10. DC Resistance; (1-4)=1.1Ω ±10%
(2-5)=1.1Ω ±10%
(7-9)=0.21Ω ±10%
11. Turns Ratio; (7-9):(1-5)=1:5.40±2% with 2 & 4 shorted
12. Dielectric Strength; 1875Vrms 1 second @ Pri to Sec

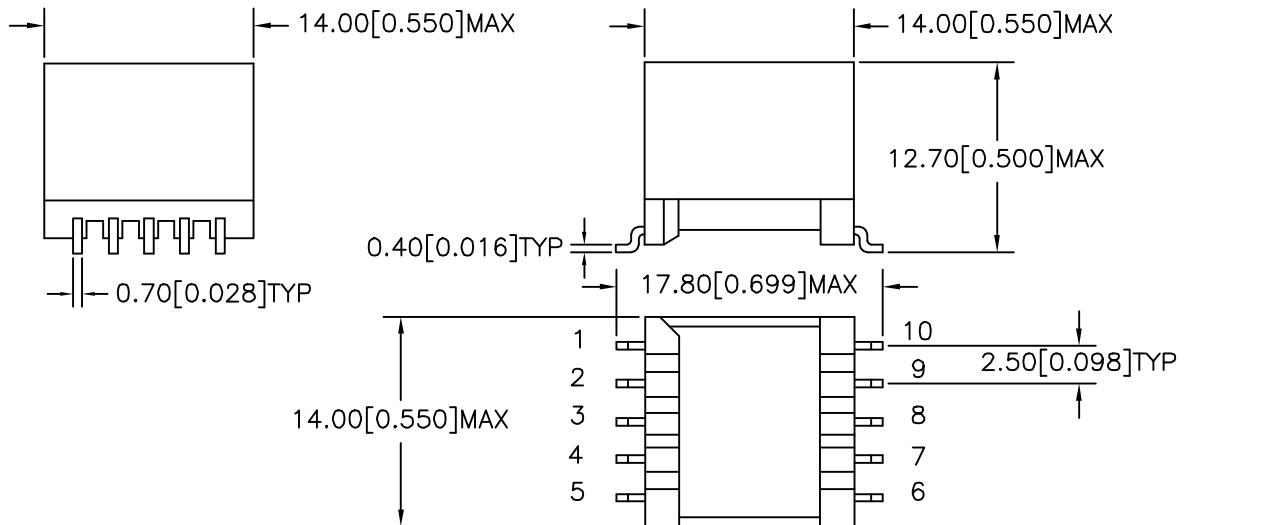
B. Marking; TTC-4083B, TAMURA, date code and country of origin "B" designates UL approved family classification.

C. Safety: UL1950 3rd Edition, UL60950 and EN60950

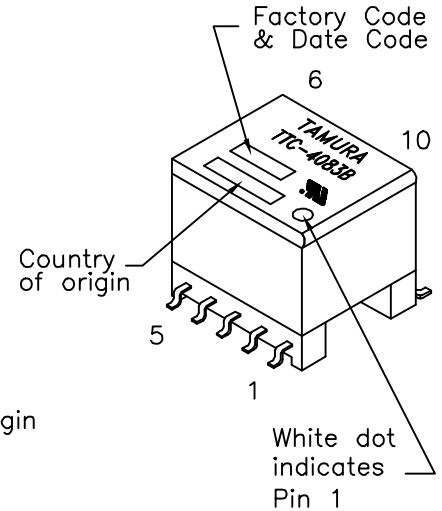
D. Schematic;



E. Mechanical Specifications



MODEL NUMBER
TTC-4083



PREPARED BY:

D. Rund

ENGINEER:

M. Pitchai

QUALITY CONTROL:

D. Kelley

APPROVED:

J. Coleman

DWG CONTROL NO.
P-A1-12738
ACAD\TTC\A1127381.DWG

REV
PR1

HDSL2
TRANSFORMER
TAMURA CORPORATION OF AMERICA
43352 BUSINESS PARK DRIVE, TEMECULA, CA. 92590-6624
(909) 699-1270 FAX 9096769482

TTC-4083

MODEL SPECIFICATION

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

PROPRIETARY NOTICE: THIS DRAWING PRINT OR DOCUMENT AND SUBJECT MATTER DISCLOSED HEREIN ARE PROPRIETARY ITEMS TO WHICH TAMURA RETAINS THE EXCLUSIVE RIGHT OF DISSEMINATION, REPRODUCTION, MANUFACTURE AND SALE. THIS DRAWING, PRINT OR DOCUMENT IS SUBMITTED IN CONFIDENCE FOR CONSIDERATION BY THE RECIPIENT ALONE UNLESS PERMISSION FOR FURTHER DISCLOSURE IS EXPRESSLY GRANTED IN WRITING.