

REV. Status

REVISION –  
06/30/00 MP

REVISION A  
CHANGED  
SCHEMATIC,  
ADDED UL TO  
ISO MARKING.  
11/06/00 MP

REVISION B  
CHANGED  
SCHEMATIC,  
A.1, A.2, A.6  
AND A.10.  
11/21/00 MP

ADSL transformer designed for use with Analog Device ADSL IC chip set AD20MSP930

A. Electrical Specifications (@ 25° C)

1. Primary (Line side) Impedance; 100Ω
2. Secondary (IC side) Impedance; 82.6Ω
3. Frequency Response; ±0.5dB MAX @ 100KHz to 1.1MHz OdBm
4. Insertion Loss; 0.5dB MAX @ 300KHz OdBm
5. Longitudinal Balance; 40dB MIN @ 10KHz to 1MHz, OdBm (Per ITU method pin 4 grounded)
6. Open Circuit Inductance; 1.8mH MIN @ 10KHz, 0.02Vrms Measured (1–4) with 2 and 3 shorted
7. Leakage Inductance; 7.5μH MAX @ 100KHz, 0.01Vrms Measured (1–4) with 2 & 3, 8 & 9, and 7 & 10 shorted
8. DC Resistance;
  - 2.0Ω MAX measured (1–4) with (2–3) shorted
  - 2.0Ω MAX measured (10–7) with (9–8) shorted
9. Turns Ratio; (1–4):(7–10)=1:1.1±2%  
2 & 3, 8 & 9 shorted
10. Dielectric Strength; 1875Vrms 1 second @ Pri to Sec
11. Total Harmonic Distortion; –80dB MAX @ 20KHz



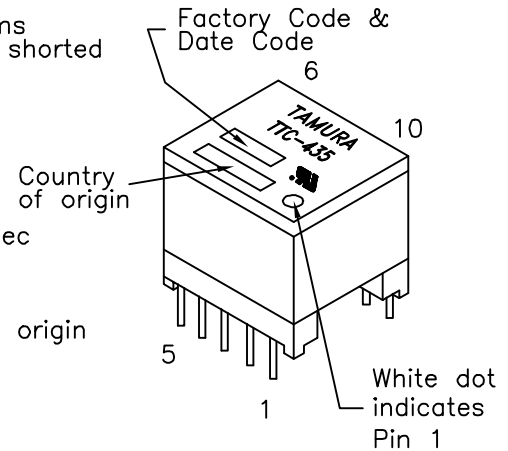
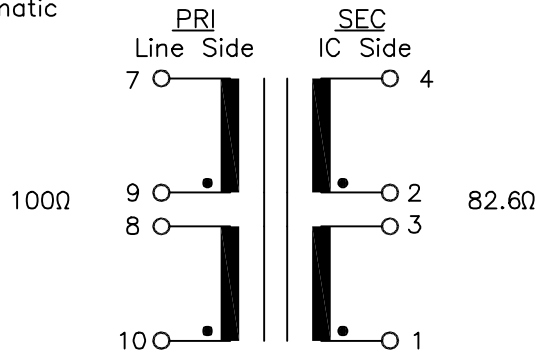
MODEL NUMBER

TTC-435

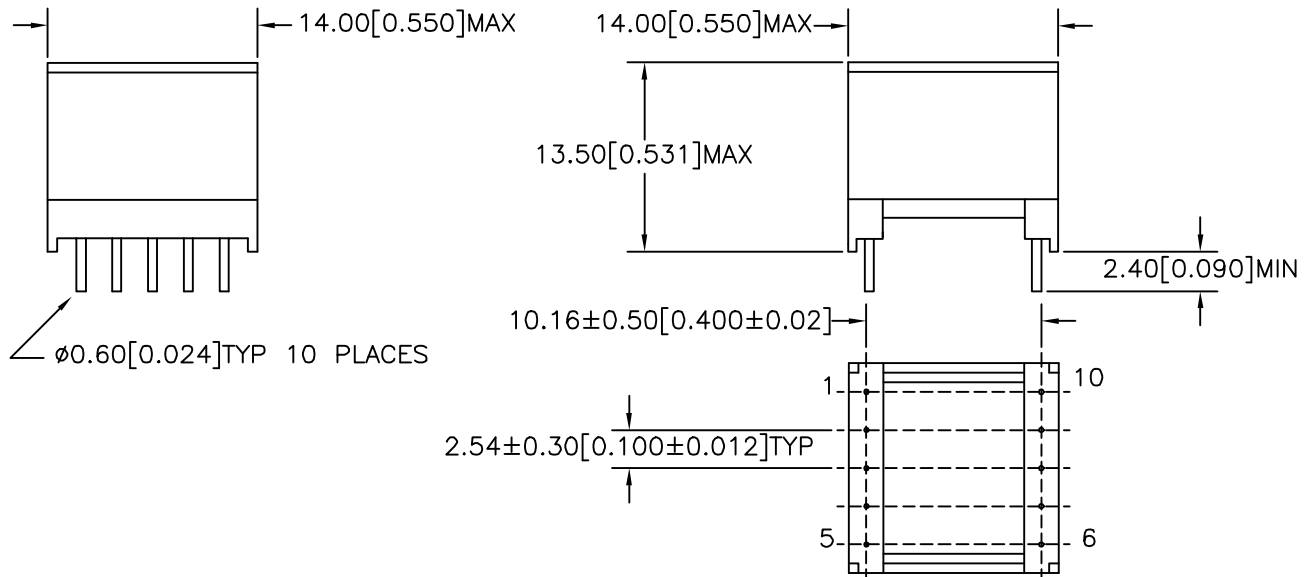
B. Marking; TTC-435, TAMURA, date code and country of origin

C. Safety: UL 1950 3rd Edition File No. E208555

D. Schematic



E. Mechanical Specifications



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J. Coleman

DWG CONTROL NO.  
P-A1-12270  
ACAD\TTC\A1122701.DWG

REV  
B

ADSL THROUGH HOLE  
TRANSFORMER

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

TTC-435

MODEL SPECIFICATION

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

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