

REV. Status

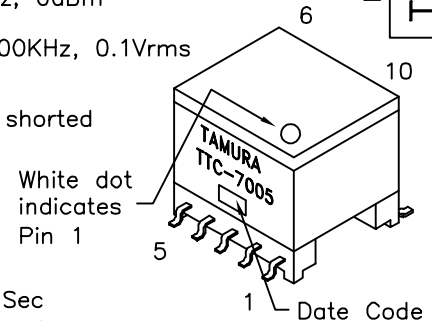
PRELIMINARY
03/08/00 JCPRELIMINARY 1
CHANGED A.11
08/04/00 MP

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ISDN surface mount transformer designed for use with Analog Device
ADSL IC chip AD20MSP930

A. Electrical Specifications (@ 25 °C)

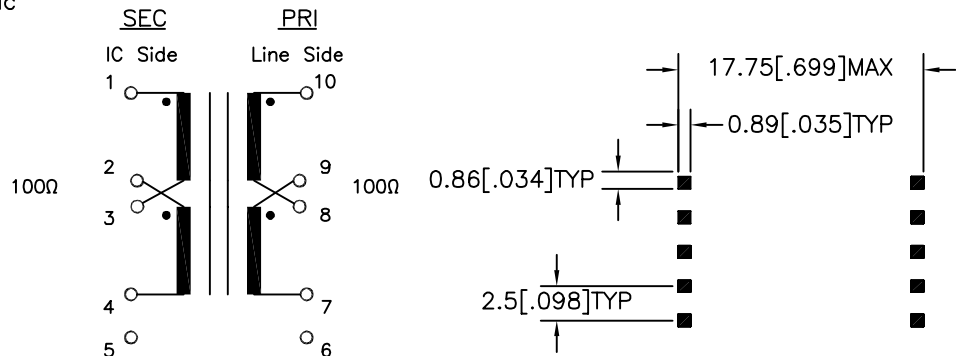
1. Primary (Line side) Impedance; 100 Ω
2. Secondary (IC side) Impedance; 100 Ω
3. Frequency Response; $\pm 0.5\text{dB}$ MAX @ 100KHz to 1.1MHz, 0dBm
4. Insertion Loss; 0.5dB MAX @ 300KHz, 0dBm
5. Longitudinal Balance; 46dBm MIN @ 10KHz to 1.1MHz, 0dBm
(Per ITU method pin 1 grounded)
6. Primary Open Circuit Inductance; $100\mu\text{H} \pm 10\%$ @ 100KHz, 0.1Vrms
Measured (1-4) with 2 and 3 shorted
7. Leakage Inductance; $4\mu\text{H}$ MAX @ 100KHz, 0.1Vrms
Measured (1-4) with 2 & 3, 8 & 9, and 7 & 10 shorted
8. Distributed Capacitance; 20pF MAX
Measured (1-4) with 2 and 3 shorted
9. DC Resistance; (1-3)+(2-4)=1.0 Ω MAX
(7-9)+(8-10)=1.0 Ω Max
10. Turns Ratio; (1-4):(7-10)=1:1.00 $\pm 2\%$
2 & 3, 8 & 9 shorted
11. Dielectric Strength; 1875Vrms 1 second @ Pri to Sec
12. Total Harmonic Distortion; -80dB MAX @ 100KHz, 4.0Vrms



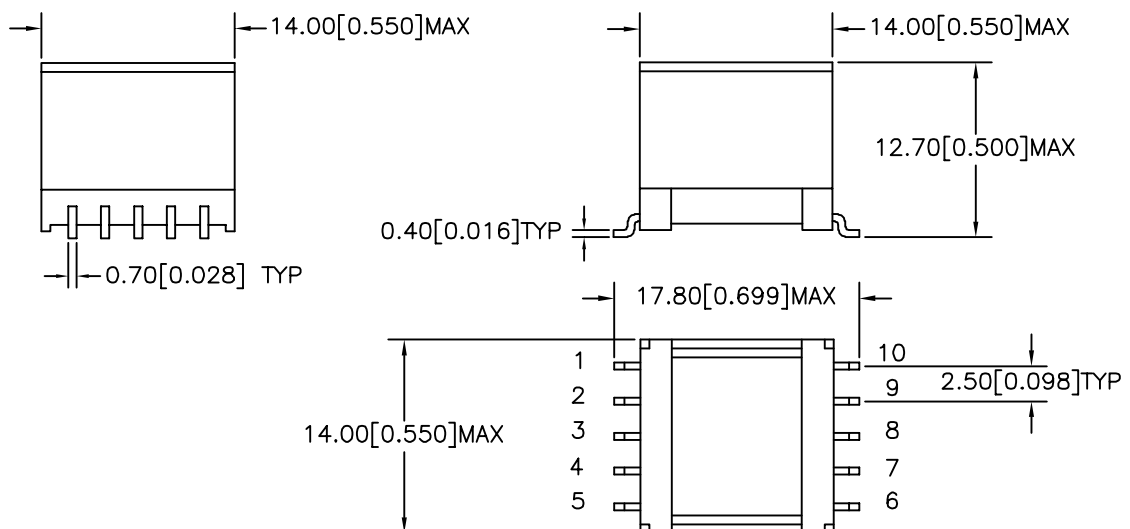
B. Marking; TTC-7005, TAMURA, date code and country of origin

C. Safety: Complies with UL1950

D. Schematic



E. Mechanical Specifications



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APPROVED:

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DWG CONTROL NO.
P-A1-12372
ACAD\TTC\A1123721.DWGREV
PR1ISDN SURFACE MOUNT
TRANSFORMER

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

TTC-7005

MODEL SPECIFICATION

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

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