

REV. Status

REVISION –  
05/05/95 TS

REVISION A  
ADDED RoHS  
12/05/05 MP

REVISION B  
ADDED TEMP  
RATING  
5/6/15 MP

TELECOMMUNICATION COUPLING MINIATURE ENCAPSULATED TRANSFORMER DESIGNED TO OPERATE 50mW MAX IN PRIMARY AND REFLECT A PRIMARY SOURCE IMPEDANCE OF APPROXIMATELY 150Ω WITH 12Ω LOAD ON SECONDARY.

MODEL NUMBER  
**MET-42**

A. Electrical Specifications (@ 20 ° C)

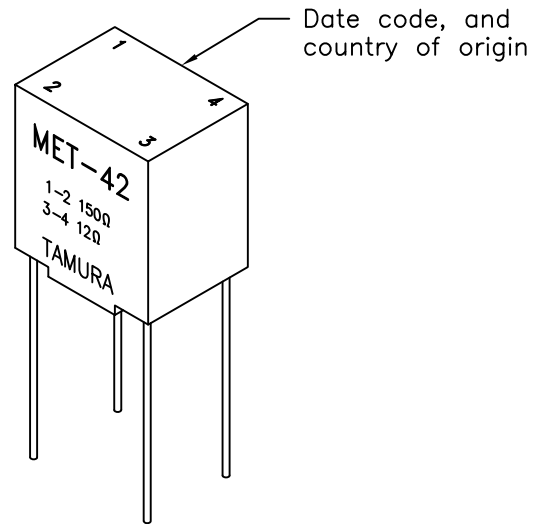
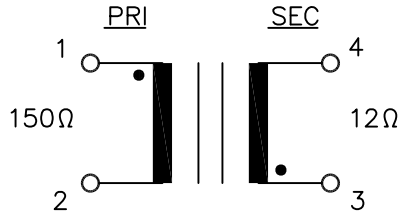
1. Pri Source Impedance; 150Ω
2. Sec Load Impedance; 12Ω
3. Pri DC Current; 10 mA MAX
4. Operating Level; 50 mW MAX @ 300 Hz
5. Frequency Response (relative to 1 KHz); ±2.0 dB, @ 300 Hz to 100 KHz
6. Longitudinal Balance; 60 dB MIN @ 1 KHz
7. DC Resistance;
  - (1-2) 20Ω ±20%
  - (3-6) 2.5Ω ±20%
8. Turns Ratio; (1-2) : (3-4) = 3.54 : 1.00 ±2%
9. Dielectric Strength; 500 Vrms 0.5 minute @ Pri – Sec



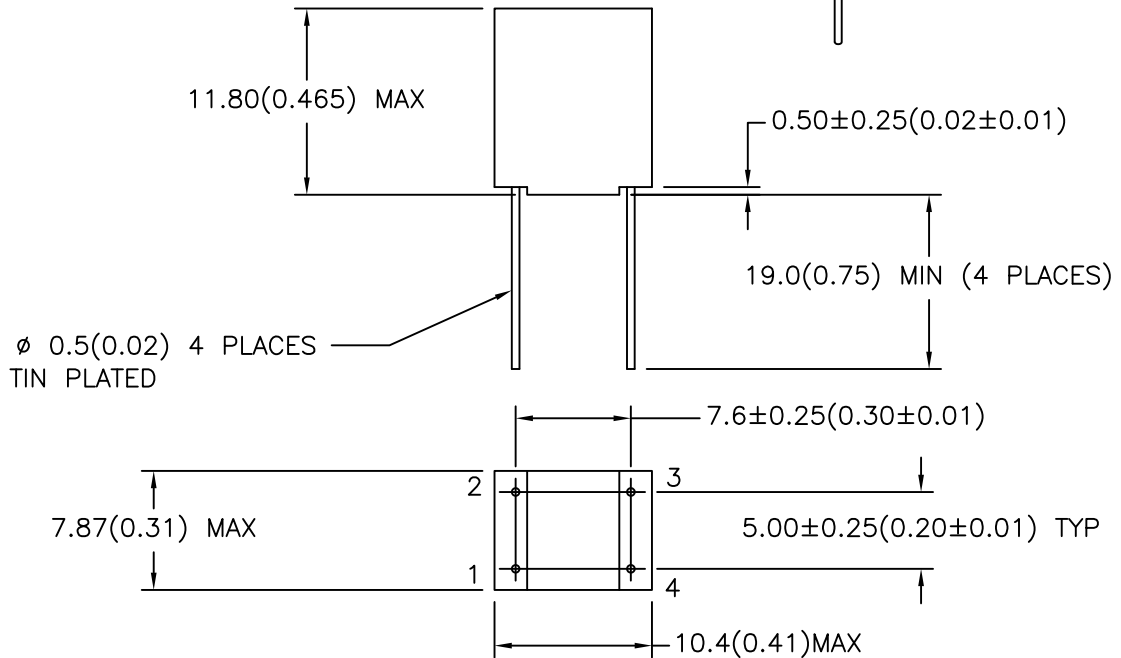
B. Marking; MET-42, TAMURA, Primary and Secondary Impedance, pin numbers, date code and country of origin

C. Operating Temperature: -20 to +85°C  
Storage Temperature: -55 to +105°C

D. Schematic Diagram



E. Mechanical Specifications



TOLERANCES (mm)	
≤ 4	± 0.2
4 ≤ 20	± 0.3
20 ≤ 50	± 0.4

PREPARED BY:

C. POPPE

ENGINEER:

MATHI P.

SAFETY ENGINEER

DRAWING CONTROL NO.	REV	MODEL DESCRIPTION	MODEL SPECIFICATION
P-A1-11305	B	AUDIO COUPLING MINIATURE ENCAPSULATED XFMR	MET-42
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M. PITCHAI			