

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



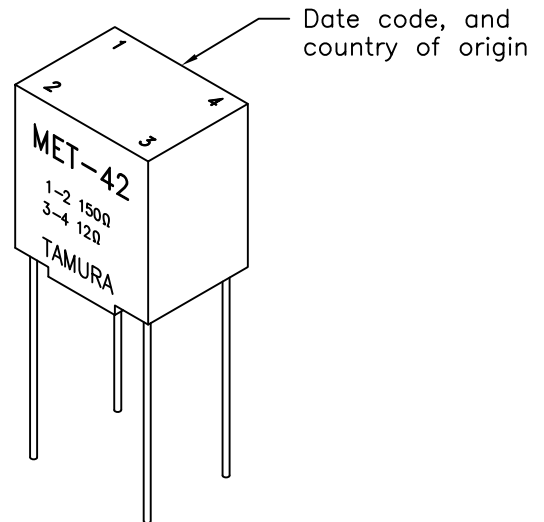
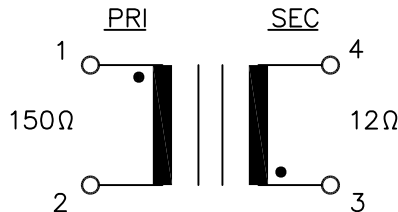
A. Electrical Specifications (@ 20 ° C)

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

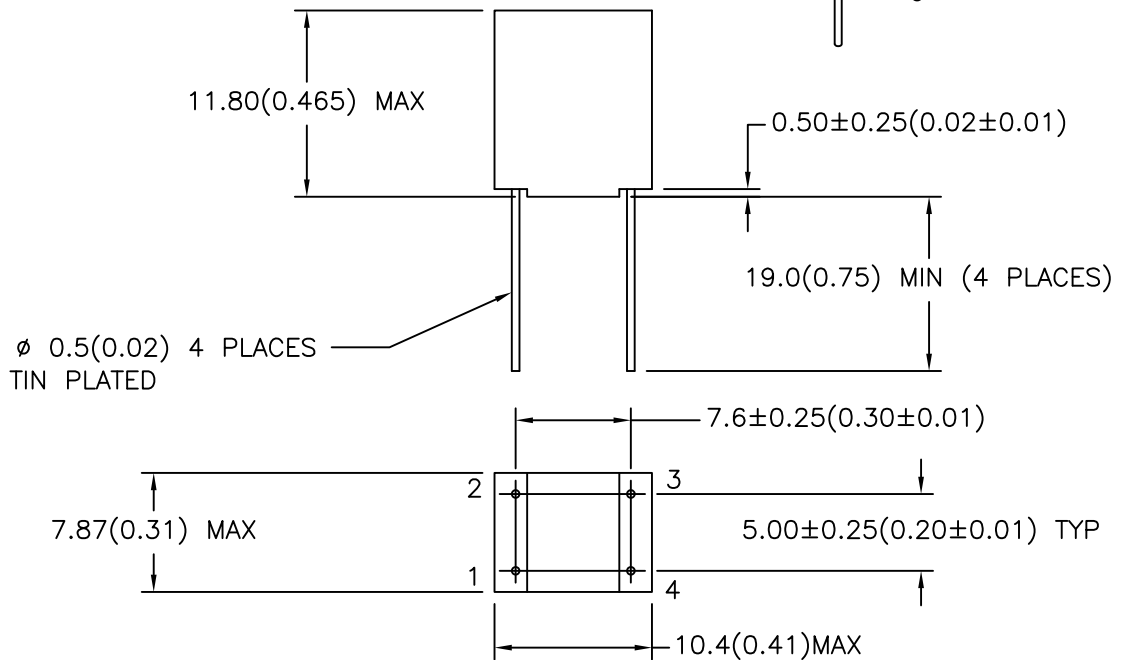
B. Marking; MET-42, TAMURA, Primary and Secondary Impedance, pin numbers, date code and country of origin

- 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

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|-----------------|--|-----|---|---------------------------------|
| ENGINEER: | DRAWING CONTROL NO. | REV | MODEL DESCRIPTION | MODEL SPECIFICATION |
| MATHI P. | P-A1-11305 | B | AUDIO COUPLING MINIATURE ENCAPSULATED XFMR | MET-42 |
| SAFETY ENGINEER | CONTENTS OF THIS DRAWING ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE TAMURA CORPORATION OF AMERICA 1040 SOUTH ANDREASEN DRIVE, #100 ESCONDIDO, CA. 92029 (951) 699-1270 FAX 7607400536 | | | DIM: mm[In] SCL: 2/1 SH: 1 OF 1 |
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| M. PITCHAI | | | | |

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