AUDIO COUPLING MINIATURE ENCAPSULATED TRANSFORMER DESIGNED TO OPERATE 50mW MAX IN PRIMARY AND REFLECT A PRIMARY SOURCE IMPEDANCE OF APPROXIMATELY 500Ω WITH 50Ω LOAD ON SECONDARY.

A. Electrical Specifications (@ 20 °C)

1. Pri Source Impedance; 500Ω
2. Sec Load Impedance; 50Ω
3. Pri DC Current; 3 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) 55Ω ±20%
   (3–4) 8Ω ±20%
8. Turns Ratio; (1–2) : (3–4) = 3.16 : 1.00 ±2%
9. Dielectric Strength;
   500 Vrms 0.5 minute @ Pri – Sec

B. Marking: MET-39, TAMURA, Primary and Secondary Impedance, pin numbers, PM35-M, MICROTRAN, TF5S21ZZ, 196-date code and country of origin

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

D. Schematic Diagram

```
PRI  SEC
1    4
500Ω 500Ω
2    3
```

E. Mechanical Specifications

```
11.80(0.465) MAX
0.50±0.25(0.02±0.01)
19.0(0.75) MIN (4 PLACES)
7.6±0.25(0.30±0.01)

7.87(0.31) MAX
5.00±0.25(0.20±0.01) TYP
10.4(0.41)MAX
```

TOLERANCES (mm):
≤ 4 ± 0.2
4 ± 0.2 ± 0.3
20 ± 0.5 ± 0.4

PREPARED BY:
C. POPPE

ENGINEER:
MATHI P.

SAFETY ENGINEER:

DRAWING CONTROL NO. REV MODEL DESCRIPTION MODEL SPECIFICATION
P-A1-11233 C AUDIO COUPLING MINIATURE ENCAPSULATED XFMR

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APPROVED:
M. PITCHAI

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