Status REVISION A 01/08/92 HA

REVISION B **TEMECULA** WAS CARSON 01/26/93 TS

REVISION C ADDED DCM21-PC MICROTRAN AND SAFETY 01/20/96 TS

REVISION D ADDED RoHS. UL1459 WAS UL1863. DIM 20.3(0.799) WAS 19.8(0.781) 10/17/06 MP

TELECOMMUNICATION DRY COUPLING TRANSFORMER DESIGNED TO OPERATE AT A MAX LEVEL OF +7dBm AND TO REFLECT A PRIMARY SOURCE IMPEDANCE OF APPROXIMATELY 600ΩCT WITH 600ΩCT LOAD ON SECONDARY

- A. Electrical Specifications (@ 25°C)
 - 1. Pri Source Impedance; 600Ω CT
 - 2. Sec Load Impedance; 600Ω CT
 - 3. Operating Level; -45 dBm to +7 dBm
 - 4. Insertion Loss;
 - 1.4 dB MAX @ 1 KHz, 0 dBm
 - 5. Frequency Response;

 ± 0.5 dB 300 Hz to 3.5 KHz @ 0 dBm

- 6. Primary Impedance;
 - $600~\Omega + 15\%$, -5% @ 300 Hz to 3.5 KHz, OdBm 600 Ω +10%, -5% @ 500 Hz to 2.5 KHz, 0dBm
- 7. Longitudinal Balance;

60 dB MIN @ 200 Hz to 1 KHz 40 dBm MIN @ 4 KHz

8. DC Resistance:

44 Ω ±20% 56 Ω ±20% (1-3) =(4-6) =

- 9. Turns Ratio; (1-3): (4-6) = 1 : 1.00 ±2%
- 10. Dielectric Strength;

1500 Vrms 1 minute @ Pri to Sec, and Pri to Core

1000 Vrms 1 minute @ Sec to Core

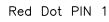
11. Total Harmonic Distortion;

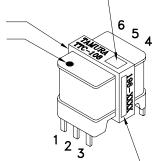
0.5% MAX @ 300 Hz to 3.5 KHz, 0 dBm

- 12. Induced Voltage; (1-3) 250 Vrms 5 KHz 1 minute
- B. Marking; TTC-108, TAMURA, DCM21-PC, MICROTRAN, safety agency logos, 196-date code and country of origin
- C. Safety; CSA-22.2 No. 66-M1988 File No. LR81383

UL 1459 File No. E142035 D. Schematic Diagram

<u>PRI</u> 3₀₋ 600ΩCT $600\Omega\,\text{CT}$ MICROTRAN and DCM21-PC -





UL# E142035

Safety logos -

Date Code and Country of Origin

E. Mechanical Specifications

+20.3(0.799) MAX 19.1(0.75) MAX

3.81(0.150) MIN [→]

- 0.40 ±0.1(0.016 ±0.004)

 $1.02 \pm 0.25(0.04 \pm 0.01) -$

REV

17.5(0.689) MAX \rightarrow

3

2

 $10.7 \pm 0.5(0.421 \pm 0.020)$

 $4.75 \pm 0.25(0.187 \pm 0.010)$

₅4.75 ±0.25(0.187 ±0.010)

 $4 \le 20 \pm 0.3$ $20 \le 50 \pm 0.4$

TOLERANCES (mm)

 4 ± 0.2

PREPARED BY:

K. BRENNAN

ENGINEER: M. PITCHAI

QUALITY CONTROL:

CONTENTS OF THIS DRAWING ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

DWG CONTROL NO.

P-A1-10017

ACAD\TTC\A1100171.DWG

TELECOMMUNICATION COUPLING **TRANSFORMER**

TAMURA CORPORATION OF AMERICA 43352 BUSINESS PARK DRIVE, TEMECULA, CA. 92590-6624 (951) 699-1270 FAX 9516769482 TTC-108

MODEL SPECIFICATION

DIM: mm[In] SCL: 1/1 SH: 1 0F

T. CLEM APPROVED:

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