



REV. 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

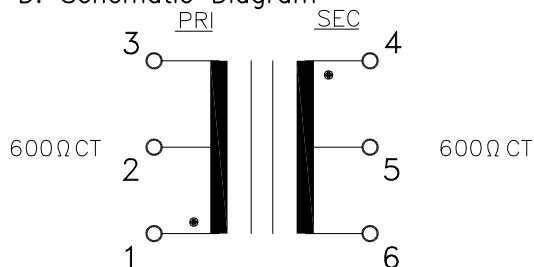
A. Electrical Specifications (@ 25 ° C)

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 Ω +15%, -5% @ 300 Hz to 3.5 KHz, 0dBm
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;
(1-3) = 44 Ω ±20%
(4-6) = 56 Ω ±20%
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

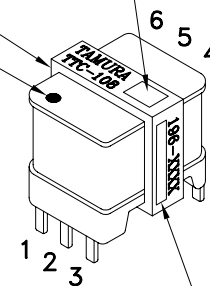
C. Safety; CSA-22.2 No. 66-M1988 File No. LR81383
UL 1459 File No. E142035

D. Schematic Diagram

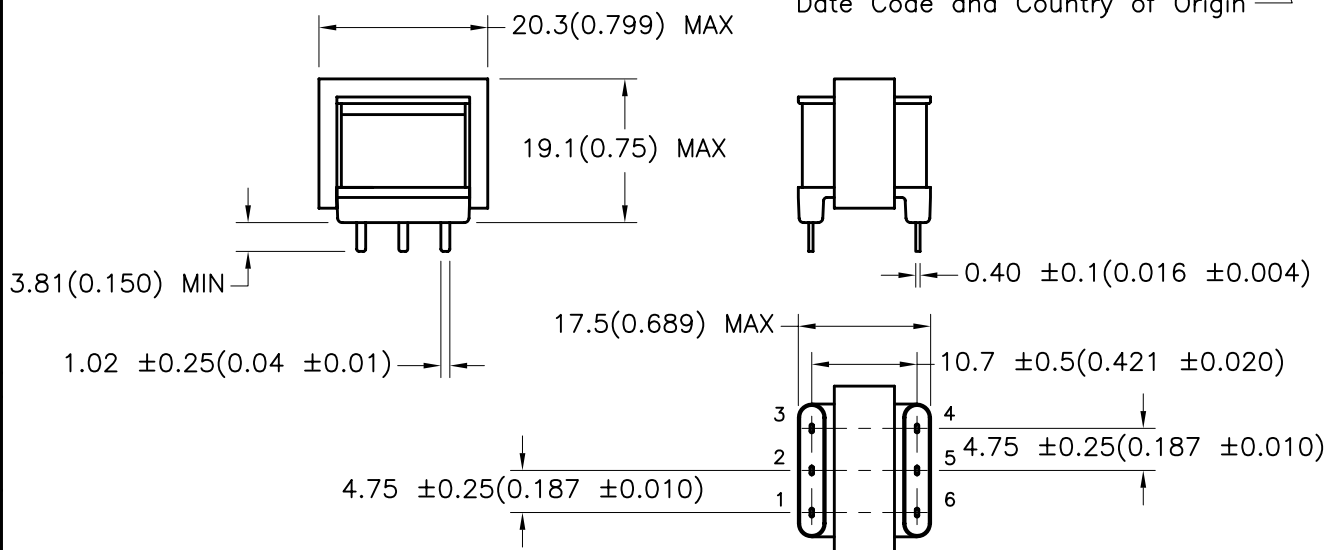


MICROTRAN and DCM21-PC
Red Dot PIN 1

Safety logos



E. Mechanical Specifications



TOLERANCES (mm)

≤ 4	± 0.2
4 ≤ 20	± 0.3
20 ≤ 50	± 0.4

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QUALITY CONTROL:

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APPROVED:

Y. SEKIGUCHI

DWG CONTROL NO.
P-A1-10017
ACAD\TTC\A1100171.DWG

REV
D

TELECOMMUNICATION COUPLING
TRANSFORMER

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TTC-108

MODEL SPECIFICATION

DIM: mm[In] SCL: 1/1 SH: 1 OF 1

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