

REV. Status

ISSUE 2
REVISED AND
REDRAWN ON
CAD/CAM
01/08/92 HA

ISSUE 3
TEMECULA
WAS CARSON
01/26/93 TS

ISSUE 4
ADDED DCM21-PC
MICROTRAN
AND SAFETY
01/20/96 TS

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



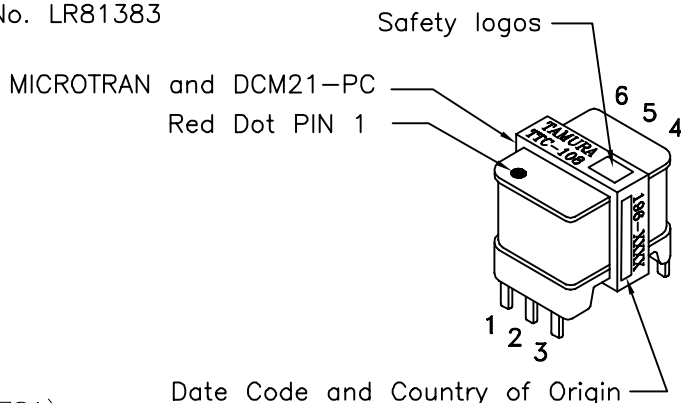
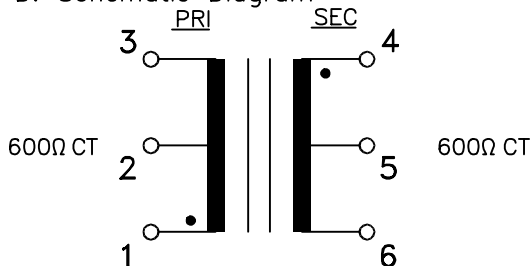
MODEL NUMBER
TTC-108

- A. Electrical Specifications (@ 25 ° C)
- Pri Source Impedance; 600Ω CT
 - Sec Load Impedance; 600Ω CT
 - Operating Level; -45 dBm to +7 dBm
 - Insertion Loss; 1.4 dB MAX @ 1 KHz, 0 dBm
 - Frequency Response; ±0.5 dB 300 Hz to 3.5 KHz @ 0 dBm
 - Primary Impedance; 600 Ω +15%, -5% @ 300 Hz to 3.5 KHz, 0dBm
600 Ω +10%, -5% @ 500 Hz to 2.5 KHz, 0dBm
 - Longitudinal Balance; 60 dB MIN @ 200 Hz to 1 KHz
40 dBm MIN @ 4 KHz
 - DC Resistance; (1-3) = 44 Ω ±20%
(4-6) = 56 Ω ±20%
 - Turns Ratio; (1-3) : (4-6) = 1 : 1.00 ±2%
 - Dielectric Strength; 1500 Vrms 1 minute @ Pri to Sec, and Pri to Core
1000 Vrms 1 minute @ Sec to Core
 - Total Harmonic Distortion; 0.5% MAX @ 300 Hz to 3.5 KHz, 0 dBm
 - Induced Voltage; (1-3) 250 Vrms 5 KHz 1 minute

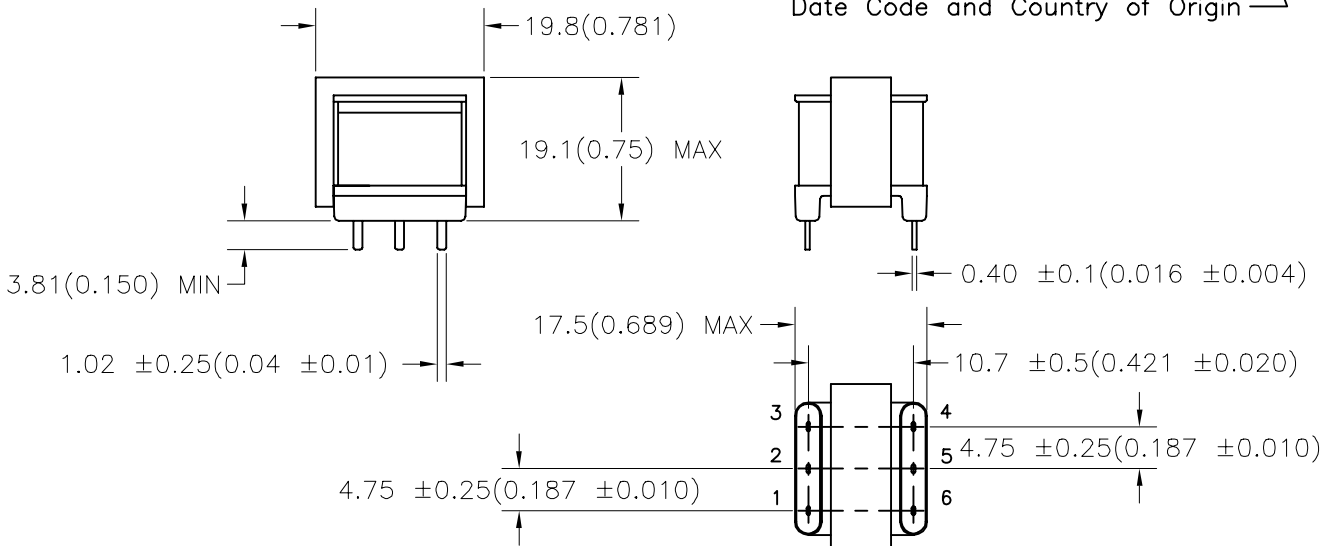
B. Marking; TTC-108, TAMURA, DCM21-PC, MICROTRAN, safety agency logos, 196-date code and country of origin

C. Safety; CSA-22.2 No. 66-M1988 File No. LR81383
UL 1863 File No. E142035

D. Schematic Diagram



E. Mechanical Specifications



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

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QUALITY CONTROL:

V. Casey

APPROVED:

V. Casey

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

REV C

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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