

TELECOMMUNICATION WET COUPLING TRANSFORMER DESIGNED TO OPERATE FROM  
-45dBm TO +10dBm WITH 0 TO 90mADC IN PRIMARY AND REFLECT A PRIMARY  
SOURCE IMPEDANCE OF APPROXIMATELY 600  $\Omega$  WITH 600  $\Omega$  LOAD ON SECONDARY:

## A. Electrical Specifications (@ 25 ° C)

1. Pri Source Impedance; 600  $\Omega$
2. Sec Load Impedance; 600  $\Omega$
3. Pri DC Unbalance Current; 90mA (1-2)
4. Operating Level; -45 dBm to +10 dBm
5. Insertion Loss;  
2.0 dB MAX @ 1.8 KHz 0 dBm and DC90mA
6. Frequency Response (relative to 1.8 KHz)  
+0.2dB, -1.7dB @ 500 to 3,500 Hz 0 dBm and DC90mA  
+0.2dB, -3.5dB @ 300 to 3,500 Hz 0 dBm and DC90mA
7. Pri Impedance; 600  $\Omega$   $\pm$ 10%, -35% @ 500 to 1,800 Hz 0 dBm and DC90mA
8. Pri Return Loss; 14 dB MIN @ 1.8 KHz 0 dBm and DC90mA
9. Longitudinal Balance; 60 dB MIN @ 200 to 4,000 Hz
10. Total Harmonic Distortion; 1.0% MAX @ 300 to 3,500 Hz 0 dBm and DC80mA
11. DC Resistance;  
(1-2) = 71  $\Omega$   $\pm$ 20%  
(3-4) = 120  $\Omega$   $\pm$ 20%
12. Turns Ratio; (1-2) : (4-3) = 1 : 1.11  $\pm$ 2%
13. Dielectric Strength;  
3750 Vrms 1 minute @ Pri to Sec  
1500 Vrms 1 minute @ Pri to Core, Sec to Core



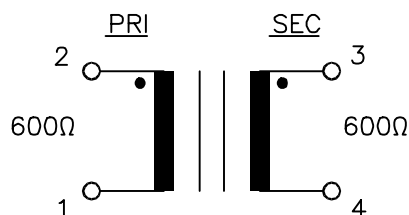
MODEL NUMBER

TTC-221

## B. Marking; TTC-221, TAMURA, date code and country of origin

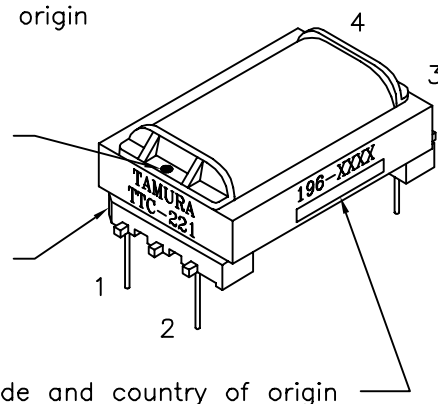
C. Safety; CSA C22.2 No. 66-M1988 File No. LR81383  
UL 1863 File No. E142035

## D. Schematic Diagram



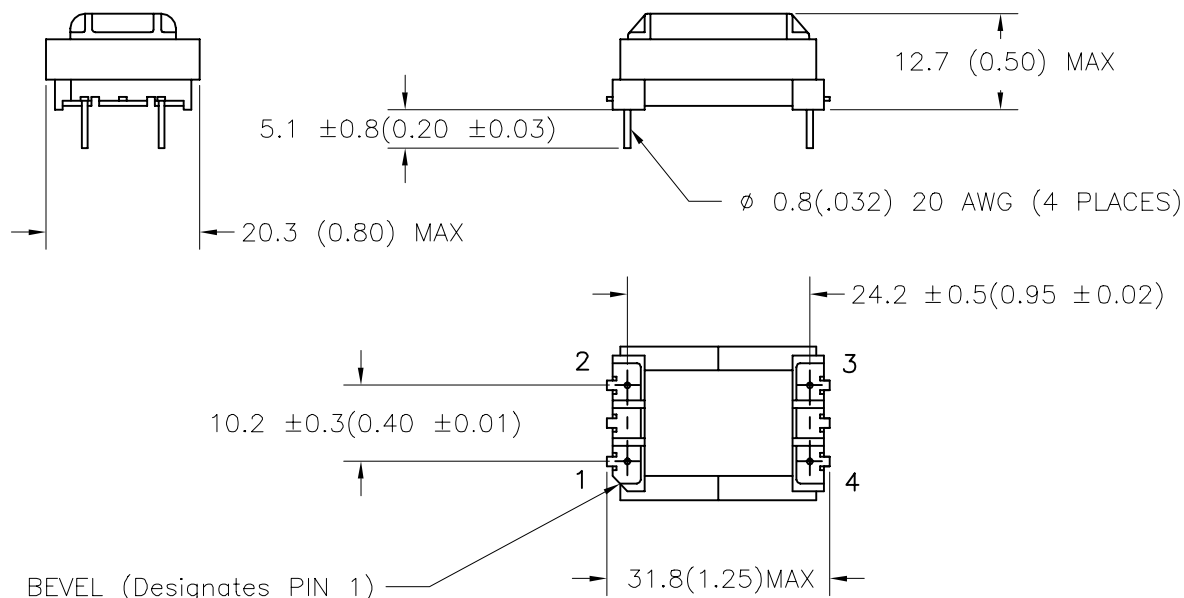
White Dot (PRIMARY)

Bevel (PIN 1)



Date code and country of origin

## E. Mechanical Specifications



PREPARED BY:

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ENGINEER:

T. Shiozawa

QUALITY CONTROL:

M. Ong

APPROVED:

M. Ong

DWG CONTROL NO.

P-A1-10564

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TELECOMMUNICATION COUPLING  
TRANSFORMER

TAMURA CORPORATION OF AMERICA

43352 BUSINESS PARK DRIVE, TEMECULA, CA. 92590-6624

TTC-221

MODEL SPECIFICATION

DIM: mm(in) SCL: 1/1 SH: 1 OF 1

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