



REV. Status

REVISION -  
01/09/92 HA

REVISION A  
REFORMATTED.  
TEMECULA  
WAS CARSON.  
ADDED SAFETY  
01/11/96 TS

REVISION B  
ADDED RoHS  
UL1459 WAS  
UL1863  
01/20/06 YS

REVISION C  
DIM 20.3(0.799)  
WAS 19.8(0.781)  
10/17/06 YS

TELECOMMUNICATION DRY BRIDGING TRANSFORMER DESIGNED TO OPERATE AT A MAX LEVEL OF +7dBm AND TO REFLECT A PRIMARY SOURCE IMPEDANCE OF APPROXIMATELY 4K $\Omega$  WITH 600 $\Omega$  LOAD ON SECONDARY

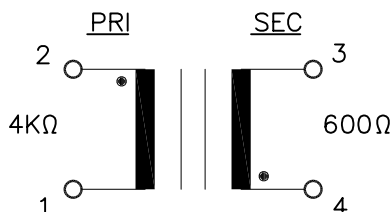
A. Electrical Specifications (@ 25 ° C)

1. Pri Source Impedance; 4K  $\Omega$
2. Sec Load Impedance; 600  $\Omega$
3. Operating Level; -45 dBm to +7 dBm
4. Insertion Loss;  
1.2 dB MAX @ 1 KHz, 0 dBm
5. Frequency Response;  
 $\pm 0.5$  dB 300 Hz to 3.5 KHz @ 0 dBm
6. Primary Impedance;  
4K  $\Omega \pm 10\%$  @ 300 Hz to 3.5 KHz, 0 dBm
7. Total Harmonic Distortion;  
0.5% MAX @ 300 Hz to 3.5 KHz, 0 dBm
8. Longitudinal Balance;  
60 dB MIN @ 200 Hz to 4 KHz
9. DC Resistance;  
(1-3) = 225  $\Omega \pm 20\%$   
(4-6) = 45  $\Omega \pm 20\%$
10. Turns Ratio; (1-3) : (4-6) = 1 : 0.397  $\pm 2\%$
11. Dielectric Strength;  
1500 Vrms 1 minute @ Pri to Sec, Pri to Core  
1000 Vrms 1 minute @ Sec to Core

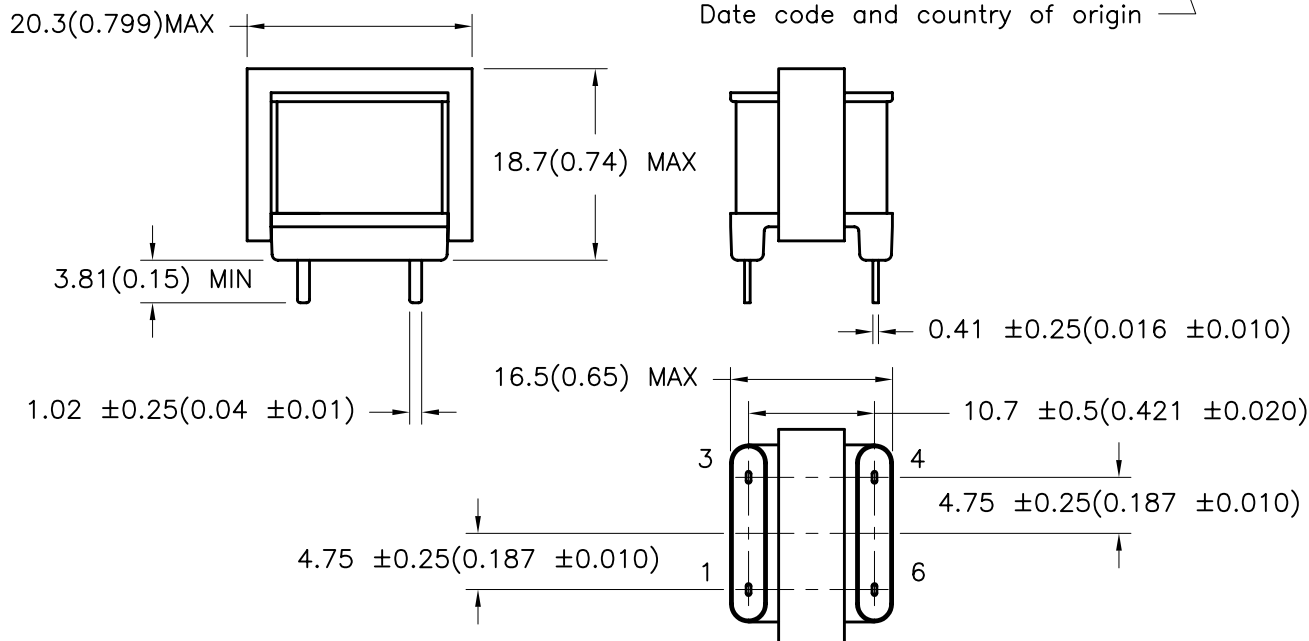
B. Marking; TTC-13, TAMURA, date code, country of origin and safety logos

C. Safety; CSA-22.2 No. 66-M1988 File No. LR81383  
UL1459 File No. E142035

D. Schematic Diagram



E. Mechanical Specifications



TOLERANCES (mm)	
$\leq 4$	$\pm 0.2$
$4 \leq 20$	$\pm 0.3$
$20 \leq 50$	$\pm 0.4$

PREPARED BY:

K. BRENNAN

ENGINEER:

Y. SEKIGUCHI

QUALITY CONTROL:

T. CLEM

APPROVED:

Y. SEKIGUCHI

DWG CONTROL NO.  
P-A1-10524  
ACAD\TTC\A1105241.DWG

REV  
C

BRIDGING  
TRANSFORMER

CONTENTS OF THIS DRAWING ARE  
SUBJECT TO CHANGE WITHOUT  
PRIOR NOTICE

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

**TTC-13**

MODEL SPECIFICATION

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

PROPRIETARY NOTICE: THIS DRAWING PRINT OR DOCUMENT AND SUBJECT MATTER DISCLOSED HEREIN ARE PROPRIETARY ITEMS TO WHICH TAMURA RETAINS THE EXCLUSIVE RIGHT OF DISSEMINATION, REPRODUCTION, MANUFACTURE AND SALE. THIS DRAWING, PRINT OR DOCUMENT IS SUBMITTED IN CONFIDENCE FOR CONSIDERATION BY THE RECIPIENT ALONE UNLESS PERMISSION FOR FURTHER DISCLOSURE IS EXPRESSLY GRANTED IN WRITING.



MODEL NUMBER

TTC-13

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Tamura:](#)

[TTC-13](#)