



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



REVISION B  
REVISED AND  
REDRAWN ON  
CAD/CAM  
1/9/92 HA

REVISION C  
TEMECULA  
-WAS-  
CARSON  
1/13/93 TS

REVISION D  
ADDED SAFETY  
REFORMATTED  
5/3/95 TS

REVISION E  
NEW  
FORMAT  
06/30/98 TS

REVISION F  
ADDED RoHS.  
UL1459 WAS  
UL1863.  
5-26-09 M.P.

A. Electrical Specifications (@ 25°C)

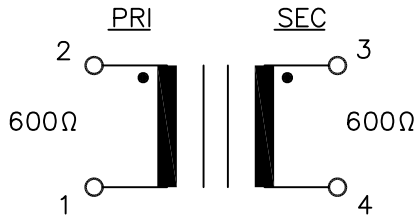
1. Pri Source Impedance; 600Ω
2. Sec Load Impedance; 600Ω
3. Pri DC Unbalance Current; 90mA (1-2)
4. Operating Level; -45dBm to +10dBm
5. Insertion Loss;
  - 1.9dB MAX @ 1.8KHz 0dBm and DC90mA
6. Frequency Response (relative to 1.8KHz)
  - +0.3dB, -1.3dB @ 500 to 3.5KHz 0dBm and DC90mA
  - +0.3dB, -2.5dB @ 300 to 3.5KHz 0dBm and DC90mA
7. Pri Impedance; 600Ω ±20% @ 500 to 1.8KHz 0dBm and DC90mA
8. Pri Return Loss; 14dB MIN @ 1.8KHz 0dBm and DC90mA
9. Longitudinal Balance; 60dB MIN @ 200 to 4KHz
10. Total Harmonic Distortion; 1.0% MAX @ 300 to 3.5KHz 0dBm and DC90mA
11. DC Resistance;
  - (1-2) = 75 Ω ±10%
  - (3-4) = 100 Ω ±10%
12. Turns Ratio; (1-2) : (4-3) = 1 : 1.04 ±2%
13. Dielectric Strength;
  - 1500Vrms 60Hz 1 minute @ Pri to Sec, Pri to Core
  - 1500Vrms 60Hz 1 minute @ Sec to Core



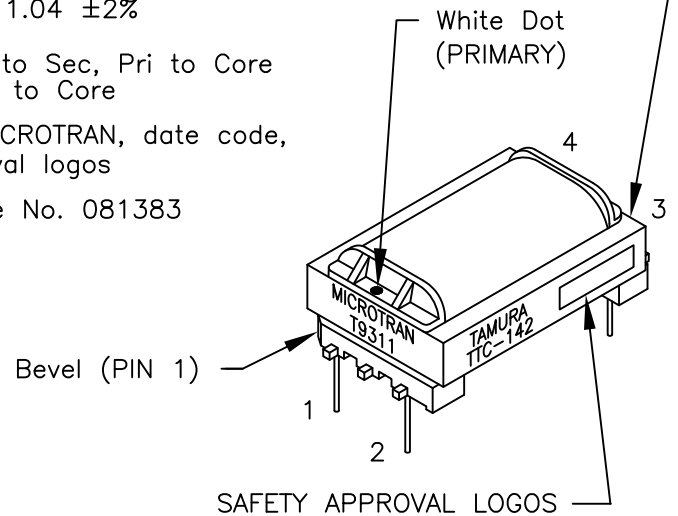
B. Marking; TTC-142, TAMURA, T9311, MICROTRAN, date code, country of origin and safety approval logos

C. Safety; CSA C22.2 No. 66-M1988 File No. 081383  
UL1459 File No. E142035

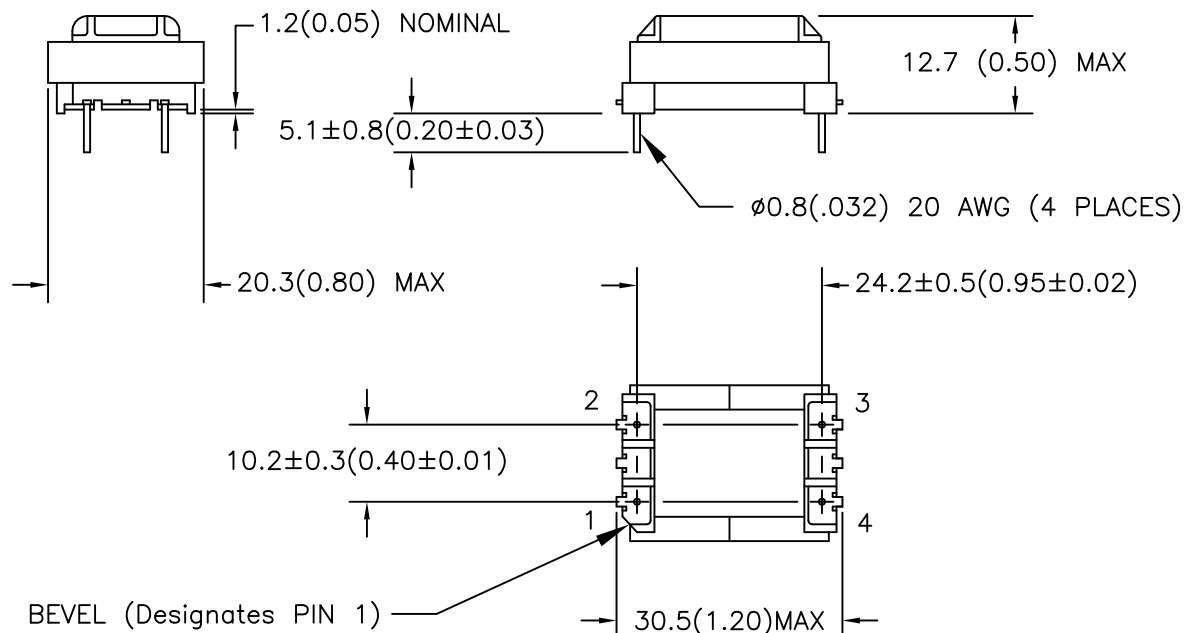
D. Schematic Diagram



Date code and country of origin



D. Mechanical Specifications



PREPARED BY:  
E. BRINER

ENGINEER:  
M. PITCHAI

SAFETY ENGINEER:  
B.O.

APPROVED:  
T. BROOKS

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TELECOMMUNICATION COUPLING  
TRANSFORMER

MODEL SPECIFICATION  
TTC-142

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

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