

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

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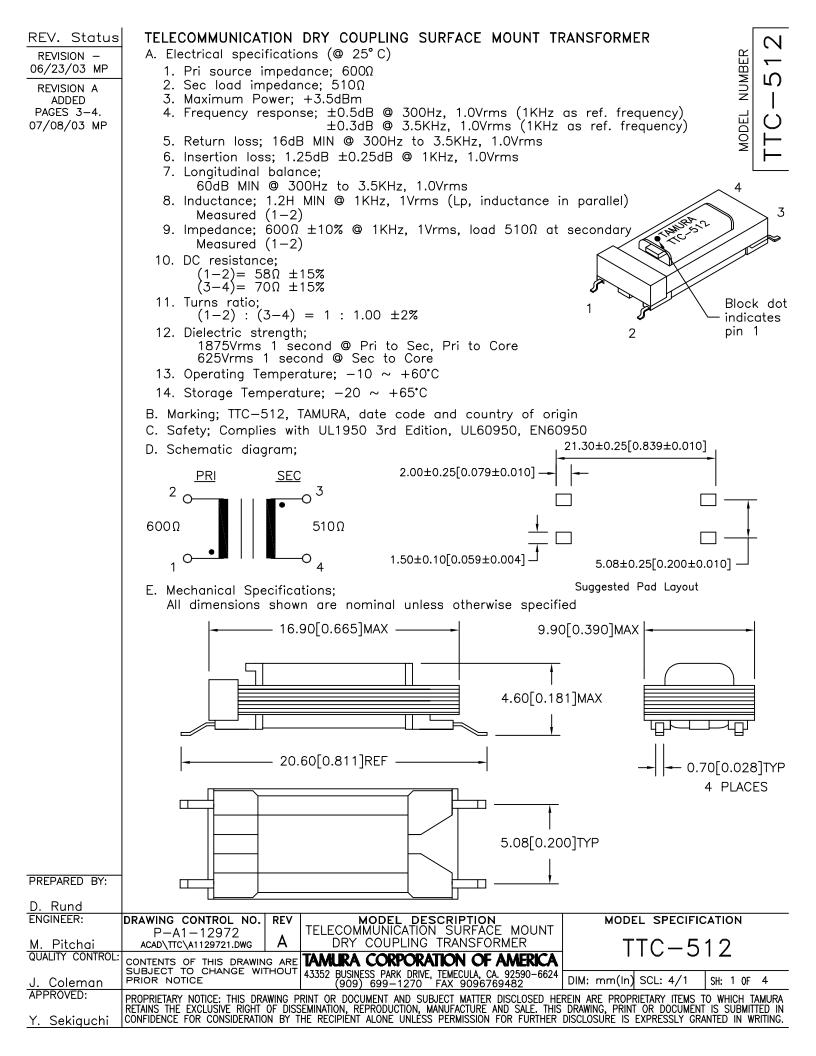
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REV. Status

REVISION -06/23/03

REVISION A ADDED PAGES 3-4. 07/08/03 MP F. Reliability Test;

No.	Itam	Condition	Charifications		
	Item		Specifications		
1	Solderbility	Temperature: 230° ± 5°C Solder time: 3 ± 0.5 seconds Solder: H60A or H63A Flux: 75% Methanol and 25% Rosin	After that the sample shall be covered by solder uniformly at more than 90% of circumference. Sample shall not show any unusual appearance.		
2	Resistance to Soldering heat	Temperature: 260° ± 5°C Solder time: 10 ± 1 seconds Solder: H60A or H63A Flux: 75% Methanol and 25% Rosin			
3	Resistance to soldering heat (hand soldering)	Temperature: $350^{\circ} \pm 10^{\circ}$ C Solder time: 3 ± 1 seconds	Sample shall not show any unusual appearance.		
4	Thermal cycle test	JIS C 0025 10 cycles Temperature -10°C 30 min 25°C 5 min 70°C 30 min	After that sample shall be replaced in normal ambient for 60 min., it shall not show any unusual appearance and should meet the requirement of dielectric strength and insulation resistance no less than $10M\Omega$		
5	Heat test	JIS C 0021 Temperature: 100°C Time: 96 hours	After that sample shall be replaced in normal ambient for 60 min., it shall not show any unusual appearance and should meet the requirement of dielectric strength and insulation resistance no less than $10M\Omega$		
6	Cold test	JIS C 0020 Temperature: -25°C Time: 96 hours	After that sample shall be replaced in normal ambient for 60 min., it shall not show any unusual appearance and should meet the requirement of dielectric strength and insulation resistance no less than $10M\Omega$		
7	Humidity Test	JIS C 0022 Temperature: 40°C Humidity: 90~95% Time: 96 hours	After that sample shall be replaced in normal ambient for 60 min., it shall not show any unusual appearance and should meet the requirement of dielectric strength and insulation resistance no less than $10M\Omega$		
8	Vibration test	JIS C 0040 Frequency: 10~55Hz Amplitude (total excursion) 1.5mm Transverse time: 5 min. Direction Time: XYZ each 50 min.	After that sample shall be replaced in normal ambient for 60 min., it shall not show any unusual appearance and should meet the requirement of dielectric strength and insulation resistance no less than $10M\Omega$		
9	Terminal strength	JIS C 0051.2.5 5N 10 seconds	No breakage of magnet wire, etc.		
P ACAD CONTEN SUBJEC	NG CONTROL NO. RE -A1-12972 \TTC\a1129722.DWG ATTO CHANGE WITHO NOTICE	TELECOMMUNICATION SURFACE DRY COUPLING TRANSFORMER TAMURA CORPORATION OF	TTC-512 *AMERICA A. 92590-6624 DIM: N/A SCI. N/A CH. 2 05 4		

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REV. Status

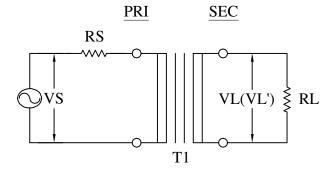
REVISION - 06/23/03

REVISION A ADDED PAGES 3-4. 07/08/03 MP

G. Test Methods;

1. Frequency Response:

FR=20 LOG
$$\left| \frac{VL}{VL'} \right|$$
 (dB)



VS: Constant input voltage (V)

VL: Output voltage at any other frequency (V)

VL: Output voltage at reference frequency, 1KHz (V)

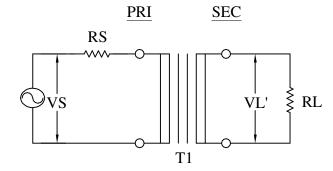
RS: Primary source impedance (Ω

RL: Secondary load impedance (Ω)

T1: Transformer under test

2. Insertion Loss:

IL=10 LOG
$$\left| \frac{\text{VS}^2 \text{x RL}}{4 \text{ VL}^2 \text{x RS}} \right|$$
 (dB)



VS: Input voltage (V)

VL: Output voltage at frequency, 1KHz(V)

RS: Primary source impedance (Ω) RL: Secondary load impedance (Ω)

T1: Transformer under test

DF	RAWING CONTROL NO.	REV	MODEL DESCRIPTION TELECOMMUNICATION SURFACE MOUNT	MODI	EL SPECIFIC	ATION	
	ACAD\TTC\A1129723.DWG	Α	DRY COUPLING TRANSFORMER	Т	TC-5	12	
CONTENTS OF THIS DRAWING ARE SUBJECT TO CHANGE WITHOUT 43352 BUSINESS PARK DRIVE, TEMECULA, CA.			TAMURA CORPORATION OF AMERICA				
P	RIOR NOTICE	14001	43352 BUSINESS PARK DRIVE, TEMECULA, CA. 92590-6624 (909) 699-1270 FAX 9096769482	DIM: N/A	SCL: N/A	SH: 3 OF	4

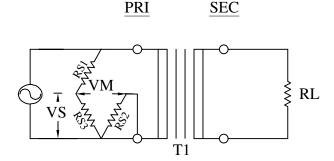
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REVISION A ADDED PAGES 3-4. 07/08/03 MP G. Test Methods;

3. Return Loss: $RL=20 LOG \left| \frac{VS}{VM} \right| (dB)$



VS: Divided input voltage (V) VM: Unbalanced voltage (V)

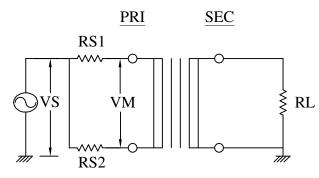
RS1, RS2, RS3: Primary source impedance (Ω

RL: Secondary load impedance (Ω)

T1: Transformer under test

4. Longitudinal Balance:

LB=20 LOG
$$\left| \frac{\text{VS}}{\text{VM}} \right|$$
 (dB)



VS: Input voltage (V)

 $VM: Longitudinal\ unbalanced\ voltage\ (V)$

RS1, RS2: Half of primary source impedance (n

RL: Secondary source impedance (Ω

T1: Transformer under test

DRAWING CONTROL NO. P-A1-12972	REV	MODEL DESCRIPTION TELECOMMUNICATION SURFACE MOUNT	MODI	EL SPECIFIC	ATION	
ACAD\TTC\A1129724.DWG	Α	DRY COUPLING TRANSFORMER	T	TC-5	12	
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