

REV. Status

REVISION - 06/23/03

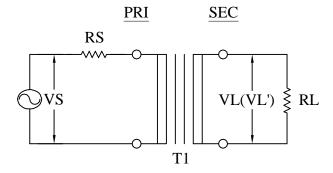
REVISION A ADDED PAGES 3-4. 07/08/03 MP F. Reliability Test;

No.	Item	Condition	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° ± 10°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 die etric strength and insulation. Sistance no less than 10Mn		
5	Heat test	JIS C 0021 Temperature: 100°C Time: 96 hours	After hat sample shall be replaced in normal imblent 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 Tempera ere: -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	H midi y 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.		
CONTEN SUBJE	NG CONTROL NO. RE -A1-12972 -\TTC\a1129722.DWG ATS OF THIS DRAWING A CT TO CHANGE WITHO NOTICE	TELECOMMUNICATION SURFACE DRY COUPLING TRANSFO	TTC-512 A. 92590-6624 DUA: N/A SCI. N/A SI. 2 05 4		

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)

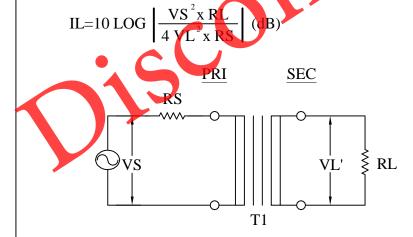
VL: Output voltage at reference frequency, 1KHz (V)

RS: Primary source impedance (Ω)

RL: Secondary load impedance (1)

T1: Transformer under test

2. Insertion Loss:



VS: Input voltage (V)

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

RS: Primary source impedance (Ω) RL: Secondary load impedance (1)

T1: Transformer under test

DRAWING CONTROL NO. P-A1-12972	REV	MODEL DESCRIPTION TELECOMMUNICATION SURFACE MOUNT	MODE	EL SPECIFIC	ATION	
ACAD\TTC\A1129723.DWG	Α	DRY COUPLING TRANSFORMER	T	TC-5	12	
CONTENTS OF THIS DRAWIN	G ARE	TAMURA CORPORATION OF AMERICA				
SUBJECT TO CHANGE WITHOUT PRIOR NOTICE		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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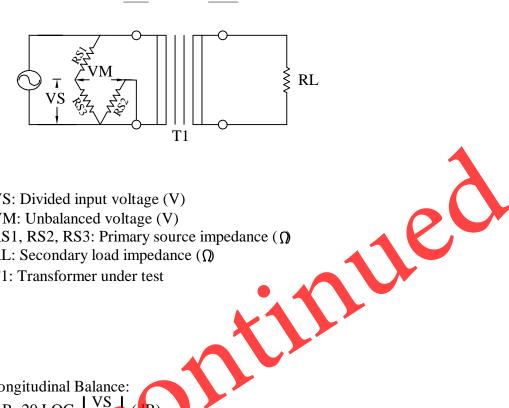
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3. Return Loss:

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



SEC

PRI

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

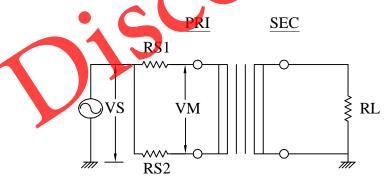
RS1, RS2, RS3: Primary source impedance (Ω)

RL: Secondary load impedance (Ω)

T1: Transformer under test

4. Longitudinal Balance:

LB=20 LOG



VS: Input voltage (V)

VM: Longitudinal unbalanced voltage (V)

RS1, RS2: Half of primary source impedance (Ω)

RL: Secondary source impedance (Ω)

T1: Transformer under test

DRAWING CONTROL NO. REV P-A1-12972 ACAD\TTC\A1129724.DWG

MODEL DESCRIPTION
TELECOMMUNICATION SURFACE MOUNT DRY COUPLING TRANSFORMER

MODEL SPECIFICATION TTC-512

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