REV. Status TELECOMMUNICATION MODEM COUPLING TRANSFORMER FOR WET APPLICATION REVISION A. Electrical Specifications (@ 25°C) 11/08/01 MP 1. Pri Source Impedance; 600Ω REVISION A 2. Sec Load Impedance; 260Ω ADDED 3. Insertion Loss; A.11-A.13. MODEL UL# E208555 4.0dB MAX @ 1KHz, 0dBm, DC 50mA 03/20/02 MP 4. Frequency Response (relative to 1KHz) REVISION B ±2.5dB @ 200Hz to 4KHz, 0dBm, DC 50mA Black dot-ADDED PAGE 2 5. Longitudinal Balance; indicates RELIABILITY TEST pin 1 04/23/02 MP 60dB MIN @ 60Hz to 1KHz -PAULEA *C.50/8C 40dB MIN @ 1KHz to 4KHz 3 REVISION C (Per FCC Part 68.310 with 4 grounded) **ADDED** BABT & TUV 6. Return Loss: 8dB MIN @ 200Hz to 4KHz, 0dBm TO MARKING 7. DC Resistance; 05/09/02 MP $(1-2) = 170\Omega \pm 10\%$ $(3-4)=170\Omega \pm 10\%$ REVISION D DELETED BABT 8. Turns Ratio; $(1-2):(4-3) = 1:1.00\pm2\%$ Date 05/07/05 MP Code 9. Dielectric Strength; 2 1875Vrms 1 second @ Pri to Sec Country 10. Total Harmonic Distortion: of origin -60dB TYP @ 600Hz, -10dBm B. Operating Temperature: -40°C to +85°C C. Storage temperature; -40°C to +85°C D. Soldering temperature; 260°C MAX for 10 sec MAX E. Reliability Test; Refer to page 2 Marking; TTC-5019C, TAMURA, date code and country of origin "C" designates UL approved family classification. G. Safety; UL1950 3rd Edition, UL60950, EN60950 H. Schematic Diagram; SEC 600Ω 260Ω I. Mechanical Specifications; 13.80±1.0[0.543±0.04] ·3.20±1.0[0.126±0.04] 0.64[0.025]TYP Square 4 Places-13.80±0.5[0.543±0.02] 2 3 22.50[0.885]MAX 11.40±0.5[0.450±0.02] 1 PREPARED BY: - 23.10[0.909]MAX K. BRENNAN **ENGINEER:** MODEL SPECIFICATION DRAWING CONTROL NO. MODEL DESCRIPTION **REV** P-A1-12503 MODEM COUPLING TRANSFORMER M. PITCHAI TC-5019 ACAD\TTC\A1125031.DWG QUALITY CONTROL: CONTENTS OF THIS DRAWING ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE TAMURA CORPORATION OF AMERICA

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T. CLEM

43352 BUSINESS PARK DRIVE, TEMECULA, CA. 92590-6624 (951) 699-1270 FAX 9516769482

DIM: mm(In) SCL: 1/1

SH: 1 OF

REV. Status	E. Reliability Test;				
DATE/ENG	No.	Item	Condition		Specifications
REVISION A ADDED A.11-A.13. 03/20/02 MP REVISION B ADDED PAGE 2 RELIABILITY TEST 04/23/02 MP REVISION C ADDED BABT & TUV TO MARKING 05/09/02 MP REVISION D DELETED BABT 05/07/05 MP	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.	
	2	Resistance to Soldering heat	Temperature: 260° ± 5°C Solder time: 10 ± 1 seconds Solder: H60A or H63A Flux: 75% Methanol and 25% Rosin	Sample shall not show any unusual appearance.	
	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 dielectric strength and insulation resistance no less than 10M Ù	
	5	Heat test	JIS C 0021 Temperature: 85°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 10MÙ	
	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 10MÙ	
	7	Humidity Test	JIS C 0022 Temperature: 40°C Humidity: 90~95% Time: 96 hours	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 10MÙ 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 10MÙ 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 10MÙ No breakage of magnet wire, etc. TTC — 5019	
	8	Vibration test	JIS C 0040 Frequency: 10~55Hz Amplitude (total excursion) 1.5mm Transverse time: 5 min. Direction Time: XYZ each 50 min.		
PREPARED BY: K. BRENNAN	9	Terminal strength	JIS C 0051.2.5 5N 10 seconds		
ENGINEER: M. PITCHAI QUALITY CONTROL:	P ACAD	CONTROL NO. RE -A1-12503 \TTC\A1125032.DWG C	TRANSFORMER		
T. CLEM	SUBJECT TO CHANGE WITHOUT PRIOR NOTICE 43352 BUSINESS PARK DRIVE, TEMECULA, CA. 92590-6624 DIM: N/A SCL: N/A				
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