

REV. Status

REVISION -
11/08/01 MP

REVISION A
ADDED
A.11-A.13.
03/20/02 MP

REVISION B
ADDED PAGE 2
RELIABILITY TEST
04/23/02 MP

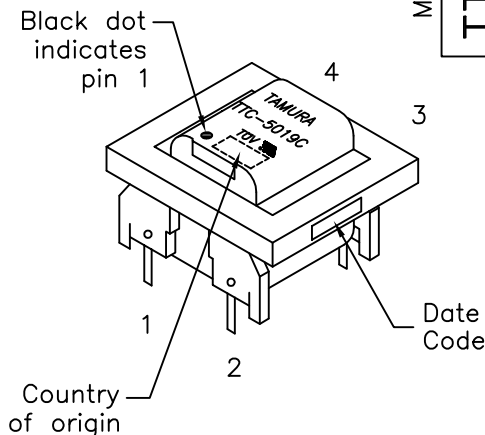
REVISION C
ADDED
BAPT & TUV
TO MARKING
05/09/02 MP

REVISION D
DELETED BAPT
05/07/05 MP

TELECOMMUNICATION MODEM COUPLING TRANSFORMER FOR WET APPLICATION

A. Electrical Specifications (@ 25°C)

1. Pri Source Impedance; 600Ω
2. Sec Load Impedance; 260Ω
3. Insertion Loss;
4.0dB MAX @ 1KHz, 0dBm, DC 50mA
4. Frequency Response (relative to 1KHz)
±2.5dB @ 200Hz to 4KHz, 0dBm, DC 50mA
5. Longitudinal Balance;
60dB MIN @ 60Hz to 1KHz
40dB MIN @ 1KHz to 4KHz
(Per FCC Part 68.310 with 4 grounded)
6. Return Loss; 8dB MIN @ 200Hz to 4KHz, 0dBm
7. DC Resistance;
(1-2) = 170Ω ±10%
(3-4) = 170Ω ±10%
8. Turns Ratio; (1-2):(4-3) = 1:1.00±2%
9. Dielectric Strength;
1875Vrms 1 second @ Pri to Sec
10. Total Harmonic Distortion:
-60dB TYP @ 600Hz, -10dBm



MODEL NUMBER

TTC-5019

B. Operating Temperature: -40°C to +85°C

C. Storage temperature; -40°C to +85°C

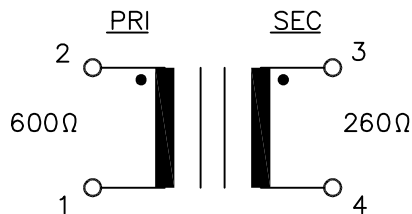
D. Soldering temperature; 260°C MAX for 10 sec MAX

E. Reliability Test; Refer to page 2

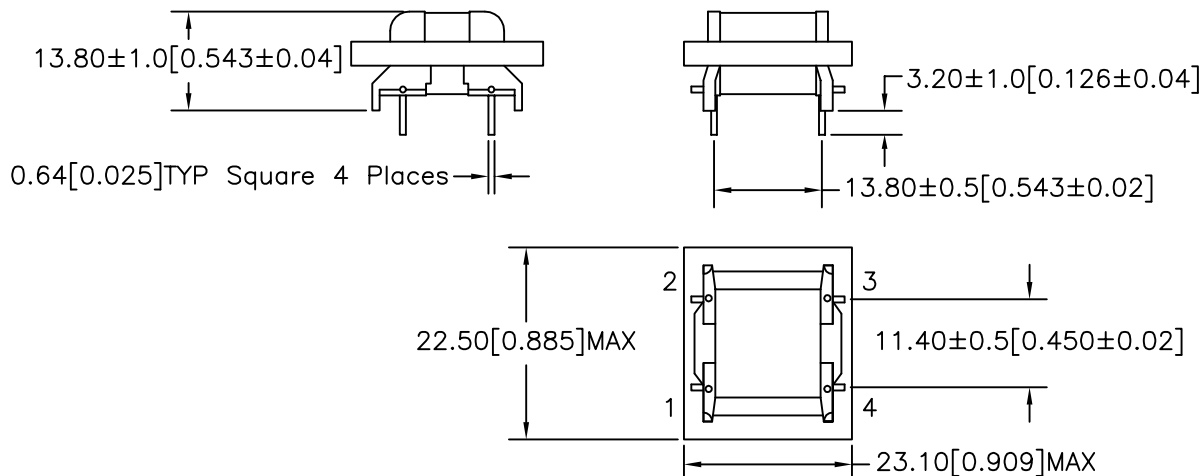
F. Marking; TTC-5019C, TAMURA, date code and country of origin
"C" designates UL approved family classification.

G. Safety; UL1950 3rd Edition, UL60950, EN60950

H. Schematic Diagram;



I. Mechanical Specifications;



PREPARED BY:

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ENGINEER:

M. PITCHAI

QUALITY CONTROL:

T. CLEM

APPROVED:

Y. SEKIGUCHI

DRAWING CONTROL NO.
P-A1-12503
ACAD\TTC\A1125031.DWG

REV
D

MODEL DESCRIPTION
MODEM COUPLING TRANSFORMER
TAMURA CORPORATION OF AMERICA
43352 BUSINESS PARK DRIVE, TEMECULA, CA. 92590-6624
(951) 699-1270 FAX 9516769482

MODEL SPECIFICATION
TTC-5019
DIM: mm(In) SCL: 1/1 SH: 1 OF 2

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E. Reliability Test;

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DELETED BABT
05/07/05 MP

No.	Item	Condition	Specifications
1	Solderability	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 10MΩ
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 10MΩ
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 10MΩ
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 10MΩ
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 10MΩ
9	Terminal strength	JIS C 0051.2.5 5N 10 seconds	No breakage of magnet wire, etc.

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T. CLEMAPPROVED:
Y. SEKIGUCHIDWG CONTROL NO.
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TRANSFORMER

TTC-5019

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PRIOR NOTICE**TAMURA CORPORATION OF AMERICA**
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DIM: N/A

SCL: N/A

SH: 2 OF 2

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