



SPECIFICATION AND PERFORMANCE

SERIES:
112C-TXAR-R02

FILE:
112C-TXAR-R02_spec

DATE:
2012/10/25

Scope:

This specification covers the requirements for product performance, test methods and quality assurance provisions of 112C-TXAR-R02.

Performance and Descriptions:

The product is designed to meet the electrical, mechanical and environmental performance requirements specification. Unless otherwise specified, all tests are performed at ambient environmental conditions.

ROHS:

All material in according with the ROHS environment related substances list controlled.

MATERIAL AND FINISH		
INSULATOR	Material	Housing: LCP UL 94V-0 Black
CONTACT	Material	Contact: Phosphor Bronze C5210
	Plating	Gold plated overall.
SHELL OR COVER	Material	Fork: Stainless Steel Shell: Stainless steel t=0.2mm
	Plating	Tin plated over Nickel.
RATING	Current rating : 0.5A max. Voltage rating : 10V DC Operating Temperature : -40°C~+ 85°C Storage Temperature : -40°C~+ 85°C	

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ELECTRICAL		
Item	Requirement	Test Condition
Contact Resistance	80mΩ Max.	The T-FLASH SOCKET and T-FLASHCARD were mated. Low-level current was applied and resistance measurements were taken. (20mV Max., 10mA) EIA-RS -364-23A
Insulation Resistance	1000MΩ Min.	Test between adjacent contacts on unmated connectors at the potential of 500V DC. It was applied between all contacts. EIA-RS-364-21A
Dielectric Withstanding Voltage	1. 500V AC R.M.S. for one minute. 2. No evidence of flashover or breakdown.	The potential was applied between adjacent contacts of the connector for one minute. EIA- RS-364-20A

MECHANICAL		
Item	Requirement	Test Condition
Durability	1. Appearance : No evidence of physical damage. 2.Contact resistance: 100mΩ Max(Finally).	Mating and un mating samples for 5000 cycles at maximum rate of 600 cycles per hour. EIA- RS-364-09A
Vibration	1.Appearance : No evidence of physical damage. 2.Open circuit less than 1 microsecond.	The entire frequency range, from 10 to 55 Hz and return to 10Hz shall be traversed in approximately 1 minute. This motion shall be applied for 2 hours in each of 3 mutually perpendicular directions. (total of 6 hours) Amplitude: 1.50mm Max. EIA-RS-364-28A, Condition I

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Retention Force	100 gf/pin Min.	Apply axial pull out force at the speed rate of 25±3 mm/minute. EIA-364-05
Mechanical Shock	Contact Resistance: 100mΩ max Appearance: No visual damage Discontinuity: 1.0 μsec Max.	Mate connector and subject the following shock conditions. 3 shocks shall be applied along 3 mutually perpendicular axes. Test pulse: Half Sine Peak value: 490 m/s ² (50 G) Velocity change: 3.44 m/s Pulse duration: 11 msec EIA-364-27, test condition A

ENVIRONMENTAL

Item	Requirement	Test Condition
Temperature Life(Heat)	1.Appearance : No evidence of physical damage. 2.Contact Resistance: 100mΩ Max.(Finally) 3.Insulation Resistance: 100MΩ Min.	The specimens shall be subjected to a temperature of 85°C for 96 hours, then placed in ambient temperature for more than 3 hours. MIL-STD-1344A, Method 1005.1
Temperature Life(Cold)	1.Appearance : No evidence of physical damage. 2.Contact Resistance: 100mΩ Max.(Finally) 3.Insulation Resistance:	The specimens shall be subjected to a temperature of -25°C for 96 hours, then placed in ambient temperature for more than 3 hours. MIL-STD-1344A, Method 1005.1

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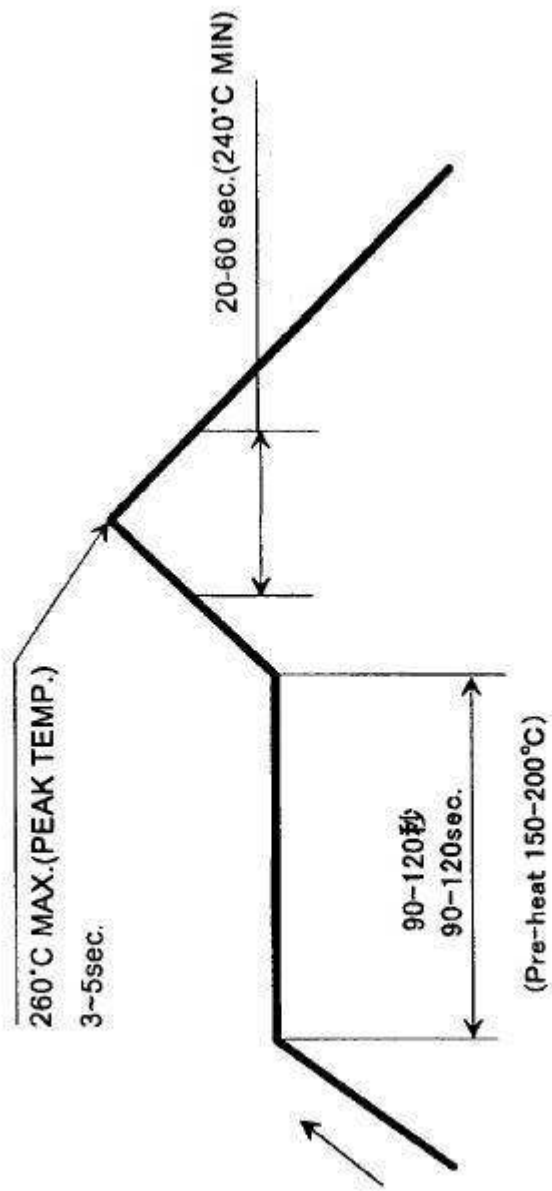
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	100MΩ Min.	
Humidity	<p>1. Appearance : No evidence of physical damage.</p> <p>2. Contact resistance: 100mΩ Max.</p> <p>3. Insulation resistance: 100MΩ Min.</p>	<p>The specimens shall be placed in a No evidence of chamber and subjected to a relative humidity of 90% to 95% and a temperature of 40±2°C for 96 hours, then placed in ambient temperature for more than 1 hour.</p> <p>EIA-RS-364-31A</p>
Salt Spray	Contact resistance: 100mΩ Max(Finally).	<p>The specimens shall be subjected to a salt water spray (concentration : 5±1%) at a temperature of 35±2°C for 24 hours, then placed in ambient temperature for more than 1 hour.</p> <p>EIA-RS-364-26A</p>

SOLDER ABILITY

Item	Requirement	Test Condition
Solder ability	<p>1. Appearance: No evidence of Physical damage.</p> <p>2. More than 95% of the solder able area shall be covered with solder.</p>	<p>After 5~10 seconds flux deep. Subject connector lead to solder bath at 235°C±3°C for 5±0.5 seconds.</p> <p>MIL-STD-202F, Method 208</p>
Resistance to Soldering heat	No evidence of Physical damage.	<p>The connector shall be tested resistance. To soldering heat in the following conditions.</p> <p>For RoHS 260°C 10±0.5 seconds.</p>

REFLOW CONDITION】

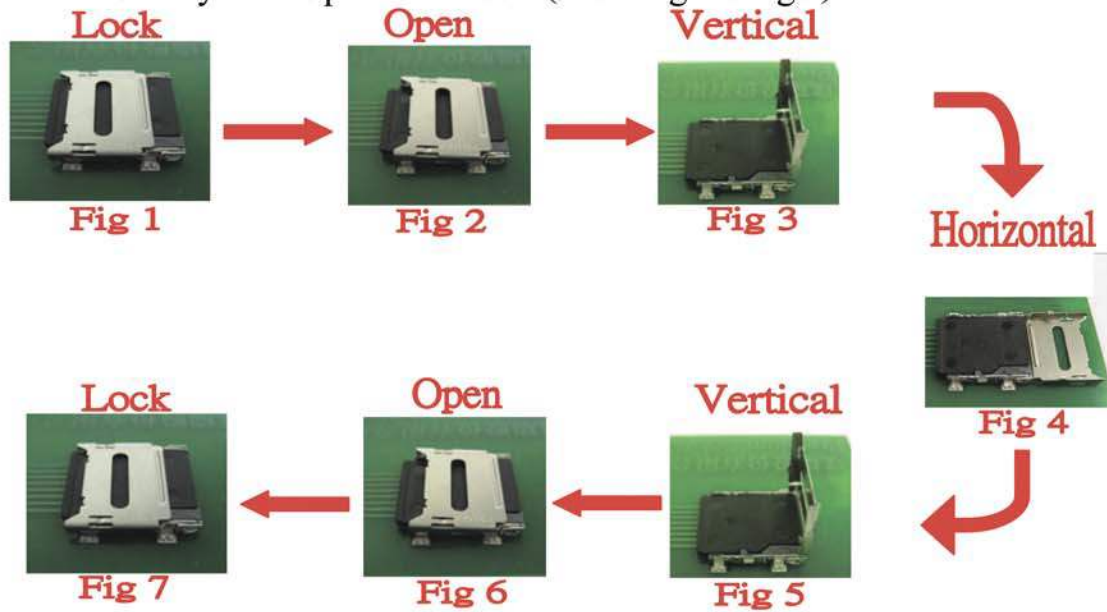


TEMPERATURE CONDITION GRAPH
(TEMPERATURE ON BOARD PATTERN SIDE)

Commercial standards, specifications and report
Open and close the shell with 5000 cycles.

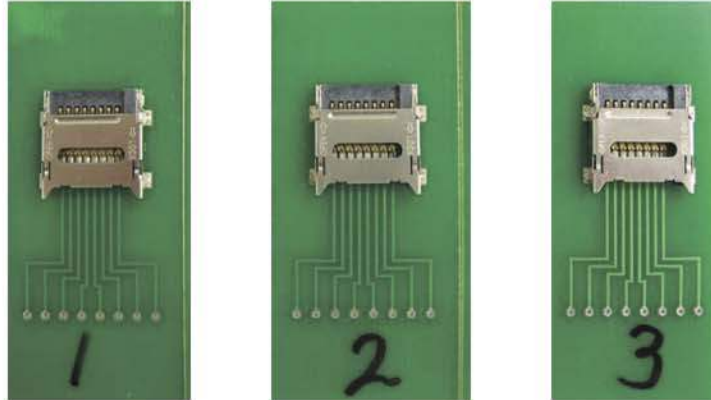
Testing Condition

One cycle : Open and close (from fig1 to fig7)

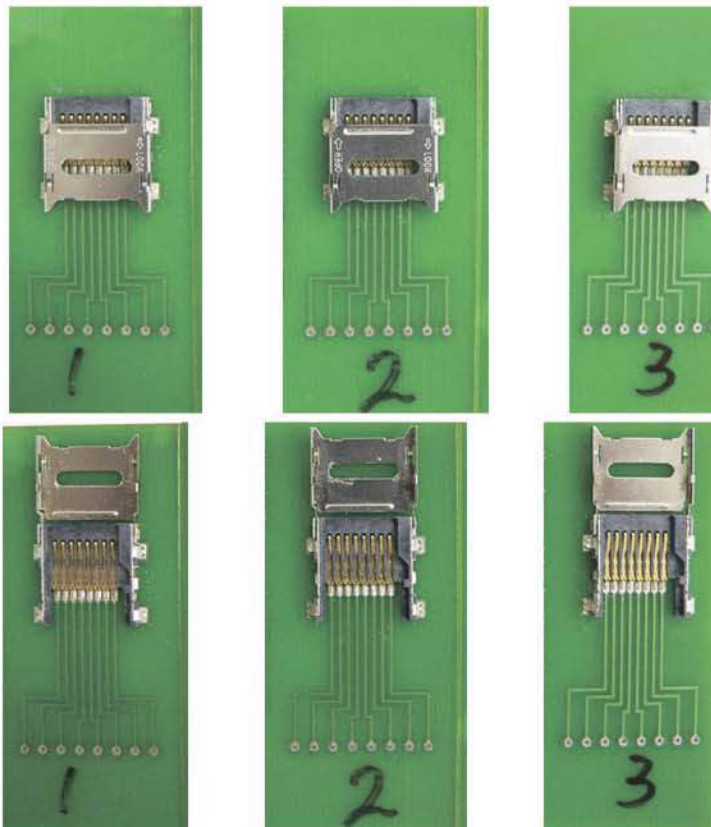


Testing Result

Initial Test Condition (3 specimen) :



After Test Condition (3 specimen) :



Testing Conclusion : No visual damage.