

Product Name	HDMI FEMALE SMT(BOTTOM) TYPE (HDMI-BSD)	Rev.	A0
Part No.	1165-21074102-100	Date	2008/4/1
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Product Specification

产 品 规 格 书

Prepared by: Rain

制 定:

Checked by: Rain

审 核:

Approved by: Chain

核 准:



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1. SCOPE

1.1 Content

This specification is designated the Performance, Tests and quality requirements for High-Definition Multimedia Interface (HDMI-BSD) Connector.

1.2 Design and Construction

Product shall be conformed the Design, Construction and Physical dimensions shown as product drawing.

2. Material

Connector

Contact : Copper alloy , Selective gold plated on contact area and Tin plated on solder tail , Nickel underplate.

Housing : High Temperature Thermoplastic, UL94V-0 rated.

Shell : Copper alloy, Tin plated over Nickel.

3. Specification

Current Rating : 0.5A per contact minimum

Voltage Rating : 40V AC(RMS)

Operating temperature : -25°C ~ +85°C



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4. Test description

NO.	TEST DESCRIPTION	REQUIREMENT	PROCEDURE
1	Visual Inspection Refer to 1. RS-364-18	The inspection results should be compliant with the individual specification.	Before the qualification test, all these components shall be examined the Features, Construction as per applicable specification and documents.
2	Low Level Contact Resistance (Contact): Refer to: 1. RS-364-23	Contact: 30mΩ maximum	Mate connectors: Measure by dry circuit, 20mV maximum, 10mA.
	Contact Resistance(shell) Refer to: 1.RS-364-06A-83	Shell: 50 mΩ maximum	Shell: Measure by open circuit, 5V maximum, 100mA
3	Insulation Resistance Refer to: 1. RS-364-21 2. MIL-STD-202F 3. MIL-STD-1344A 3001.1	1 MΩ Mohms minimum (unmated) 0.1 MΩ minimum (mated)	Unmated connectors, Apply 500Volts DC (RMS.) between adjacent terminal or ground. Mated connectors, Apply 150Volts DC between adjacent terminal or ground.
4	Dielectric Withstanding Voltage Refer to: 1. RS-364-20 2. MIL-STD-202F 301 3. MIL-STD-1344A 3001.1	No evidence of Flashover or break-down.	Unmated: Unmated connector, apply 500Volts AC(RMS.) between adjacent terminal or ground. Mated: mated connector, apply 300Volts AC(RMS.) between adjacent terminal or ground.
5	Solderability Refer to: MIL-STD-202F-208F	The tail of contact is covered by continuous new solder. and the area of "Voids Solder" cannot exceed 5% of total area.	Immersed the contact of connector into the molten-Tin oven as below condition, -Temp of Tin Oven: 245°C -Speed: 25.4mm/sec -Time: 5 seconds



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NO.	TEST DESCRIPTION	REQUIREMENT	PROCEDURE
6	Durability Refer to : 1.RS-364-09 2.MIL-STD-1344A 2016	Contact resistance change from initial requirement: Contact: 30 milliohm maximum. Shell: 50 milliohm maximum.	The mated specimen are tested 10,000 cycles between mating and unmating at a rate of 100±50 cycles per hour.
7	Humidity 1.RS-364-31 2.MIL-STD-202F 103B 3.MIL-STD-1344A 1002.2	Appearance: No Damage Contact Resistance change from initial requirement: Contact: 30 milliohm maximum. Shell: 50 milliohm maximum	A : Mate connectors together and repeat the test specified in illustration I up to 4 cycles. Upon completion of the test, specimens shall be conditioned at ambient room conditions for 24 hours, after which the specified measurements shall be preformed. Temperature: +25°C~+85°C Relative Humidity: 80%~95% Duration: 4 cycles(96hours)
		Appearance: No Damage Contact resistance change from initial requirement: Contact: 30 milliohm maximum. Shell: 50 milliohm maximum Insulation Resistance: Must meet Item 3	B : Unmate each connectors and repeat the test specified in illustration I up to 4 cycles. Upon completion of the test, specimens shall be conditioned at ambient room conditions for 24 hours, after which the specified measurements shall be preformed. Temperature: +25°C~+85°C Relative Humidity: 80%~95% Duration: 4 cycles(96hours)



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NO.	TEST DESCRIPTION	REQUIREMENT	PROCEDURE
8	Insertion Force & Withdrawal Force Refer to: 1.RS-364-37 2.MIL-STD-1344A-201 3.1	Insertion force is 4.5kgf maximum. Withdrawal force is 1.0~4.0kgf after 2,000 cycles and 0.5~4.0kgf after 2001~10000 cycles	The specimen are mounted to mounting fixtures by the normal mounting menas. The peak force shall be recorded at the maximum rate of 25±3mm per minute
9	Salt Spray Refer to: 1.RS-364-26 2.MIL-STD-202F 101D 3.MIL-STD-1344A 1001.1	After the Salt Spray test , The connectors shall meet the requirements of contact resistance and insulation resistance, etc.	The connector specimen are testing with the 5% Salt Water (NaC1) , 6.5 – 7.2 PH , for 48 hours of Salt Spray test.
10	Temperature Life Refer to: 1. RS-364-17	Appearance: No Damage Contact resistance change from initial requirement: Contact: 30 milliohm max. Shell: 50 milliohm max.	Mate connectors and expose to 105±2°C for 250 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed.

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5. Test sequences:

Test of Examination	Test Group					
	A	B	C	D	E	F
	Test Sequence					
Visual Inspection	1, 7	1,7	1,5	1,5	1,3	1,3
Low Level Contact Resistance	2, 6		2,4	2,4		
Insulation Resistance		2,5				
Dielectric Withstanding Voltage		3,6				
Solder ability						2
Durability	4					
Humidity		4				
Mating & Unmating Force	3, 5					
Salt Spray			3			
Temperature Life				3		
number of samples	2	2	2	2	2	2

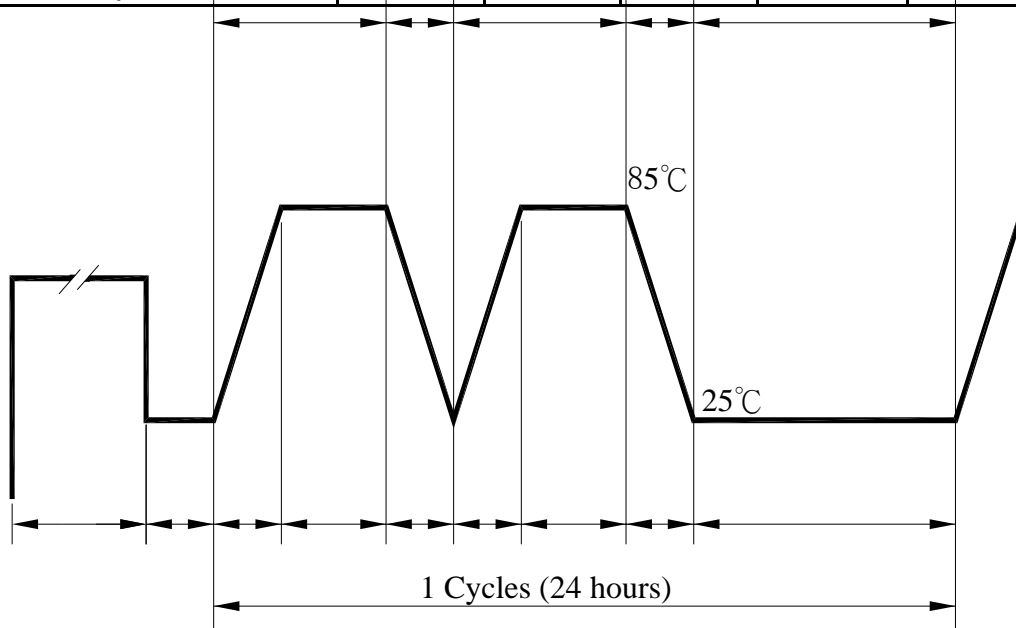


ILLUSTRATION I