# 规格书

Products Name 品名	Parts Number 料号	File No:Fn-2006-310	Pevision:	A0
HDMI CONNECTOR	HDMI 系列	DATE:2010.08.02	Page:	1/7

#### **Revision History**

Revision	Revision Description	PAGE	Date
A0	New release	ALL	2010.08.02

### 规格书

Products Name 品名	Parts Number 料号	File No:Fn-2006-310	Pevision:	A0
HDMI CONNECTOR	HDMI 系列	DATE:2010.08.02	Page:	2/7

#### 1. SCOPE

This specification is applied to the requirements for HDMI connector .This specification covers the materials, electrical, mechanical and environmental performance of the applicable product description and test method.

#### 2. REQUIREMENTS

2.1 Design and Construction

Product shall be of the design, construction and physical dimensions specified on the Applicable product drawing.

2.2 Materials

Refer to the drawing.

2.3 Related documents

EIA-364

#### 2.4 Rating

Item	Standard
Rated Voltage (Maximum)	AC:40V
Rated Current (Maximum)	DC:0.5A
Operating temperature range	-25°C∼+85°C 85%RH MAX

#### 3. TEST STANDARD

Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows

3.1 Ambient temperature: 5°Cto35°C 3.2 Relative humidity: 45% to 85%

3.3 Air pressure: 86Kpa to 106 Kpa

3.4 Test Requirements and Procedures Summary

Products Name 品名	Parts Number 料号	File No:Fn-2006-310	Pevision:	A0
HDMI CONNECTOR	HDMI 系列	DATE:2010.08.02	Page:	3/7

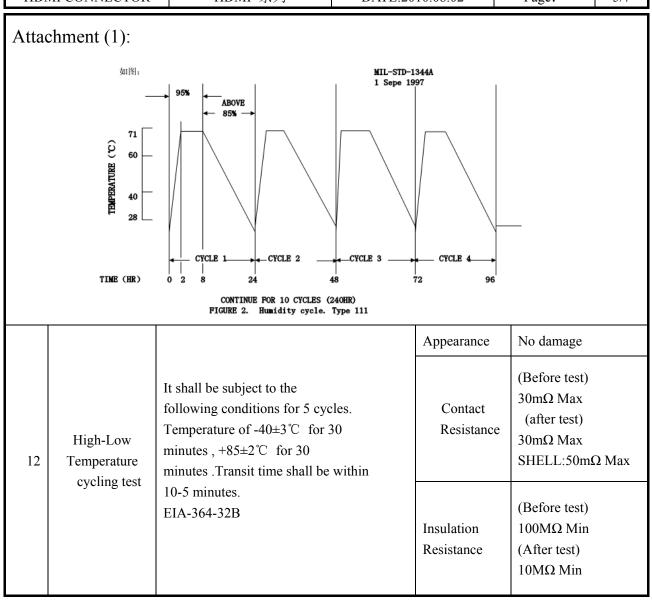
<u> </u>			l .	1 uge: 3//
Ite	em	Test Condition/Method	Requirem	nent
1	Examination of Product	Meets requirements of product drawing.	No damage	
		Electrical Performanc	e	
Subject mated contacts assembled in housing to 20mV Max open circuit at 10mA Max Shell: Measure by open circuit, 5V maximum, 100mA EIA-364-06C.  Contact: 30 mΩ Max Shell: 50 mΩ maximum				
3	Insulation Resistance	Impressed voltage 500 VDC. Test between adjacent circuits of unmated connector. EIA-364-21C.	100MΩ Min	
		Apply AC 500V at sea level on mated and Un-mated connectors for	Appearance	No damage/ Deformation
4	Withstanding voltage test	1 minutes, while applying the voltage, the leakage current is monitored and shall be less than 0.5mA. EIA-364-20B.	Current leakage	0.5 mA MAX
		Mechanical Performan	ce	
5	Connector Mating Force	Operation Speed:25.4mm/min. Measure the force required to mate connector. EIA-364-13.	Mating force	25N Max
6	Connector Un-mating Force	Operation Speed:25.4mm/min. Measure the force required to un-mate connector. EIA-364-13.	Un-mating force	7N-25N

Products Name 品名	Parts Number 料号	File No:Fn-2006-310	Pevision:	A0
HDMI CONNECTOR	HDMI 系列	DATE:2010.08.02	Page:	4/7

				rage.
			Appearance	No damage
		Mate and un-mate each connector shall be	Contact Resistance	(Before test) 30mΩ Max (after test) 30mΩ Max
7	Durability test	made with the mating plug and jack for for 5000cycles repeatedly at maximum rate of 200/ hour. EIA-364-09C.	Mating Force	SHELL: 50mΩ Max (Before test) 25N Max (After test) 25N Max
			Un-mating	(Before test) 7N -25N (After test) 5N -25N
8	Vibration test	A Subject mated connectors to 10-55-10	Appearance	No damage
		Hz traversed in 1 minute at 1.5mm amplitude 2 hours each 3 mutually perpendicular. EIA-364-28.	Contact Resistance	(Before test) $30m\Omega$ Max (after test) $30m\Omega$ Max SHELL: $50m\Omega$ Max
			Discontinuity	1μsec Max
	<u> </u>	Environmental Performance		
		Mate connectors and expose to 85±2°C for	Appearance	No damage
9	Heat Resistance	96 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.  EIA-364-17B	Contact Resistance	(Before test) $30m\Omega$ Max (after test) $30m\Omega$ Max SHELL: $50m\Omega$ Max
10	Cold Resistance	Mate connectors and expose to -40±2 °C for 96 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which	Appearance	No damage
		the specified measurements shall be performed. EIA-364-59A	Contact Resistance	(Before test) $30m\Omega$ Max (after test) $30m\Omega$ Max SHELL: $50m\Omega$ Max

		Subject Mated connect to temperature	Appearance	No damage
11	Humidity- Temperature cycling	changes between 25~85°C with 90~95 %( R.H) for a period of 96 hours. MIL-STD-1344A	Contact Resistance	(Before test) 30mΩ Max (after test) 30mΩ Max
		WILL-31D-1344A		SHELL: 50mΩ Max

Products Name 品名	Parts Number 料号	File No:Fn-2006-310	Pevision:	A0
HDMI CONNECTOR	HDMI 系列	DATE:2010.08.02	Page:	5/7



		Subject Mated connector to temperature changes between 40±2°C	Appearance	No damage
13	Humiditytest	with 90~95%(R.H)for a period of 96 hours. Shall be conditioned at ambient room conditions for 1 to 2 hours EIA-364-31B	Contact Resistance	(Before test) $30m\Omega$ Max (after test) $30m\Omega$ Max SHELL: $50m\Omega$ Max

Products Name 品名	Parts Number 料号	File No:Fn-2006-310	Pevision:	A0
HDMI CONNECTOR	HDMI 系列	DATE:2010.08.02	Page:	6/7
		Ī	ſ	

14	Resistance to Soldering heat	Solder bath method: Solder temperature 265±5°C, Immersion time: 10±1Sec,Depth up to the surface of the board 1.6mm. EIA-364-56C	Appearance	No damage
15	Solder-ability	Dip solder tails into the molten solder (held at 240±5°C)up to 2-3mm from the bottom of the housing for 3.0±0.5 seconds.  EIA-364-52A	Appearance	95% coverage as measured , no voids, pin holes
16	Salt spray	Mate connectors and expose to the following salt mist conditions:  NaCl solution concentration:5±1%  Spray time: 24 hours  Ambient temperature:35±2°C  EIA-364-26B	Appearance	No damage
			Contact Resistance	(Before test) $30m\Omega$ Max (after test) $30m\Omega$ Max SHELL: $50m\Omega$ Max

# 规格书

Products Name 品名		Parts Number 料号	File No:Fn-2006-310	Pevision:	A0
	HDMI CONNECTOR	HDMI 系列	DATE:2010.08.02	Page:	7/7

TEST GROUP AND SEQUENCE												
	EM DESCRIPTION		TEST GROUP									
ITEM			В	С	D	Е	F	G	Н	I	G	K
			TEST SEQENCE									
1	Examination of Product		1,5	1,5	1,5	1,3	1,9	1,7	1,9	1,3	1,3	
2	Contact Resistance	2,6	2,4	2,4	2,4		2,6	2,5	2,6			2,4
3	Insulation Resistance						3,7	3,6	3,7			
4	Withstanding voltage test						4,8		4,8			
5	Connector Mating Force	3,7							<u> </u>			
6	Connector Unmating Force	4,8										
7	Durability test	5										
8	Vibration test		3									
9	Heat Resistance			3								
10	Cold Resistance				3							
11	Terminal Keeping force					2						
12	High-Low Temperature cycling test							4				
13	Hunidity test								5			
14	Resistance to Soldering heat									2		
15	Solder-ability										2	
16	Salt spray											3
		<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>				
Sample Size(pcs)		5	5	5	5	5	5	5	5	5	5	5

制表: 审核: 审批: