

1. Scope

This specification covers the 2.54mm Ejector Header series

2. Test condition

The test and measurement, unless otherwise specified, shall be carryout at a temperature of 15 to 35℃, Relative humidity of 30 to 60%, and atmospheric pressure of 86 to 106kPa. However, when any doubt arises on the judgment value it , the test and measurement shall be carry out at a temperature of 20±2℃, relative humidity of 30 to 60%, and atmospheric pressure of 86 to 106kPa.

(Appearance: By looking, there shall not be any abnormality such as deformity, exfoliation of plating, etc, which can reduce performance. No defect such as cracks scratches or blemishes.)

3. Ordering information

Refer to the drawing.

4. Connector dimensions

Refer to the drawing.

5. Material

Housing: Polyester (UL 94V-0)

Color: Black

Terminal: Copper alloy

Plating: Gold plated or Selective gold on contact area, tin on tail

6. Accommodated P.C.B layout

Refer to the drawing.

7. Rating

Operating voltage(Max.) 250V DC

Current rating(Max.) 3A (AC/DC)

Temperature range-operating -40℃ -- +105℃ (Humidity range 85%RH Max.)

8. Performance

Test item	Requirement	Procedure
Electrical Performance		
Contact Resistance	20mΩ Max	Mate Connectors, measure by dry circuit, 20mV Max.10mA. (EIA-364-23)
Insulation Resistance	1000MΩ Min	Mate connectors, apply 500V DC between adjacent terminal or ground. (E1A-364-21C)
Withstanding Voltage	No Breakdown.	Mate connectors, apply 500V AC for 1 minute between adjacent terminal or ground. (EIA-364-20B)

Ejector Box Header Pitch 2.54mm series

Test item	Requirement		Procedure
Mechanical Performance			
Terminal Retention Force	800gf Min. Only per terminal		Apply axial pull out force on the Terminal assembled in the housing. Rate of 25±3mm per minute.
Durability	Contact Resistance	30mΩ Max	Mate connector up to 100cycles Repeatedly by the rate 500 cycles/h
Environmental Performance and others			
Humidity	Appearance	No Damage	40±2℃ in temperature and 90~95%RH for 96 hours. After testing connector shall be left alone for 1 to 2 hours in a room ambient. (EIA-364-31B)
	Contact Resistance	30mΩ Max	
	Withstanding Voltage	No Breakdown	
Temperature rise	Appearance	No Damage	105 ± 2 ℃ in temperature 96hours. After testing connector shall be left alone for 1 to 2 hours in a room ambient.
	Contact Resistance	30mΩ Max	
Temperature Low	Appearance	No Damage	-40 ± 2 ℃ in temperature 96hours. After testing connector shall be left alone for 1 to 2 hours in a room ambient.
	Contact Resistance	30mΩ Max	
Thermal shock	Appearance	No Damage	Cycle: 5 cycles (a) -40 ℃±3℃ 30 minutes (b) +150℃±3℃ 30 minutes
	Contact Resistance	30mΩ Max	
Solderability	Solder Wetting	95% of immersed area must show no voids, pin holes.	Soldering time: 4~5second(Use flux) Solder Temperature: 245±5℃
Resistance to Soldering Heat (Wave soldering)	Appearance	No Damage	Sample mounted on PCB and subject to wave soldering, Wave Soldering Temperature:260℃for 10 Sec
Resistance to Solder Heat (Reflow)	Appearance	No Damage	Pass Jack through IR machine for 3 cycles of the following reflow profile: Peak Temperature 260℃