

* 7500 Series And 7501,7502,7506,7507 Series Connector *

This product specification contains the test method ,the general performance and requirements for interconntection system connector. With 7500 series socket ,7501,7502,7506,7507 series header and 3973,3978,3979,3983 series crimp terminal .

1. Construction and dimensions shall be in accordance with the referenced drawings.

产品结构 and 尺寸依据所提供的产品图面.

2. Characteristics 特性;

Current rating 额定电流 : 7 A AC , DC

Voltage rating 额定电压: 250 v AC ,DC

Temperature rating 额定温度 :-25°C-----+105°C

Applicable wire 适用线材: conductor construction size # 18---# 26.

3. Electrical performance 电气特性:

ITEM	DESCRIPTION 内容	TEST METHOD & CONDITION 测试方法与条件	REQUIREMENT 需 求
3.1	Contact Resistance 接触阻抗	It should be tested in accordance with method 3004.1 of MIL-STD-1344A	Initial: 20 mΩ max After environmental test: 40 mΩ max
3.2	Insulation Resistance 绝缘阻抗	It should be tested in accordance with method 3003.1 of MIL-STD-1344A	Initial: 1000 mΩ min After humidity test: 500 mΩ min
3.3	Dielectric withstanding voltage 耐电压	Unmated connector shall be tested in accordance with method 3001.1 of MIL-STD-1344A When the AC 1500 V rms for one minute applied between adjacent contacts.	No evidence of breakdown and flashover

4. Mechanical Performance 机械特性:

ITEM	DESCRIPTION 内容	TEST METHOD & CONDITION 测试方法与条件	REQUIREMENT 需 求
4.1	Crimp tensile strength 铆合张力强度	Pulling load shall be applied between correctly crimped contact and wire at a constant speed .pulling speed :25 mm/minute.	AWG #18: 10.0 kgf min. AWG #20: 8.0 kgf min. AWG #22: 6.3 kgf min. AWG #24: 4.5 kgf min. AWG #26: 2.7 kgf min.
4.2	Contact insertion force 接触插入力	The force required to insert a contact into a housing :inserting speed:25 mm/minute.	1.25 kgf max.
4.3	Contact removal force 接触拨出力	Crimped contact mounted in a housing shall be pulled in an alignment at a constant speed of 25 mm/minute.	2.0 kgf min.
4.4	Insertion force 插入力	Housing with contact mating header at a constant speed of 25 mm/min.	2.0 kgf max
4.5	Withdrawal force 拔出力	Housing with contact mating header ,pull out from header at speed 25 mm/min.	500 gram min

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4.6	Durability 耐久性	It should be tested in accordance with method 2016 of MIL-STD-1344A . connectors shall be subjected to 100 cycles of insertion and withdrawal.	No defects. Contact resistance shall be 20 MΩ max	
4.7	Post retention force 保持力	The end of a post shall be pushed in a perpendicular to base housing at a constant speed of 25 mm/minute.	2.0 kgf min	
4.8	Vibration 振动测试	The socket mated header shall be vibrated in accordance with method 2005.1 of MIL-STD-1344A test condition B. There shall be no current discontinuity longer than 1 microsecond during the test . Frequency : 10-55-10 hz/min. Amplitude: 1.52mm Period : 2 hours for each direction.	No evidence of loosening of parts or electric discontinuity . Contact resistance initial.	
5. Environmental Performance 环境特性:				
ITEM	DESCRIPTION 内容	TEST METHOD & CONDITION 测试方法与条件	REQUIREMENT 需求	
5.1	Humidity 耐湿性	The unmated connector shall be tested in accordance with method 1002.2 of MIL-STD-1344A test procedure type I condition B. Temperature: 40±2℃ Humidity:90—95% (RH) Period: 96 hours	No damage. Contact resistance Less than twice of initial. Insulation resistance: to pass para.3-2. Dielectric withstanding voltage: to pass para 3-3	
5.2	Salt spray 盐雾试验	Connector shall be tested in accordance with method 1001.1 of MIL-STD-1344A condition B. Temperature: 35±2℃ Density: 5% in weight. Period: 48 hours.	No damage. Contact resistance less than twice of initial.	
5.3	Solder ability 着锡性	Connector termination ends shall be checked for solderability in accordance with method 208 of MIL-STD-202F. Solder temperature : 245±5℃ Immersion period :5±0.5 sec.	No damage. Minimum: 95% of immersed area.	
5.4	Resistance to soldering heat 附着耐热性	Specimen shall be mounted on PCB. Solder temperature : 260±5℃ Immersion period :5±0.5 sec.	No damage and deformation	
APPR BY :				
CHKD BY :				
SPEC BY :				