

* 2075、2076 Series Universal Serial Bus Connector *

This product specification contains the test method, the general performance and requirements for Universal Serial Bus connector.

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: 1 A maximum per contact not to exceed 30°C T-Rise.

Voltage rating 额定电压: 30 Vac (rms)

Temperature rating 额定温度: -40 ~ 60°C storage; 0°C to 40°C operating.

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	EIA 364-23 Subject mates contacts assembled in housing to 20mV Maximum open circuit at 100 mA maximum	30 mΩ maximum
3-2	Insulation Resistance 绝缘阻抗	EIA 364-21 Test between adjacent contacts of mated and unmated connector assemblies	1000 MΩ minimum
3-3	Dielectric Withstanding Voltage 耐电压	EIA 364-20 Test between adjacent contacts of mated and unmated connector assemblies	750 VAC at sea level
3-4	Capacitance 电容量	EIA 364-30 Test between adjacent circuits of unmated connector at 1 kHz	2 pF maximum

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	Mating Force 插入力	EIA 364-13 Measure force necessary to mated connector assemblies at maximum rate of 12.5mm per minute.	3.6 kgf maximum
4-2	Unmating Force 拨出力	EIA 364-13 Measure force necessary to unmated connector assemblies at maximum rate of 12.5mm per minute.	1.02 kgf minimum
4-3	Cable Retention 线材保持力	Apply axialload of 2.55 kgf to the cable	Cable shall not dislodge from cable crimps
4-4	Vibration 振动测试	EIA 364-28 Condition V Test letter A. Subject mated connector to 5.35 G's rms. Fitee minutes in each of three mutually perpendicular planes.	No discontinuities of 1 μs or longer duration

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4-5	Physical Shock 冷热冲击	EIA 364-27 Condition H. Subject mated connectors to 30 G's half-sine shock pulses of 11 ms duration. Three shock in each direction applied along three mutually perpendicular planes, 18 total shocks.	No discontinuities of 1 μ s or longer duration	
4-6	Terminal insertion force 端子插入力	Insertion speed 25 ± 3 mm per minute into plug housing	Less than 800 gram	
4-7	Contact retain force in insulator 保持力	Retention speed 25 ± 3 mm per minute from insulator	Plug:1.0Kgf min Receptacle:0.75Kgfmin.	
4-8	Durability 耐久性	EIA 364-09 Mate and unmate connector assemblies for 1500 cycles at maximum rate of 200 cycles per hour	No discontinuities of 1 μ s or longer duration	

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	Thermal Shock 冷热冲击测试	EIA 364-32 Test Condition I. Subject mated connectors to five cycles between -55°C and 85°C	No evidence of 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	Humidity 耐湿性	EIA 364-31 Method II Test Condition A. Subject mated connectors to 96 hours at 40°C with 90 to 95% RH.	No evidence of damage. Contact resistance less than twice of initial. Insulation resistance: to pass para. 3-2. Dielectric withstanding voltage: to pass para 3-3
5-3	Temperature Life 老化实验	EIA 364-17 Test Condition 3 Method A. Subject mated connectors to temperature life at 85°C for 250 hours.	No evidence of damage. Contact resistance less than twice of initial. Insulation resistance: to pass para. 3-2. Dielectric withstanding voltage: to pass para 3-3

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5-4	Resistance to soldering Heat 耐焊接热	Soldering time: 5 ± 0.5 second Soldering pot: $260 + 0 / - 5$ °C	No damage	
5-5	Solderability 着锡性	Soldering time: 5 ± 0.5 second Soldering pot: 245 ± 5 °C	No damage Minimum: 90% of immersed area	
5-6	Salt spray 盐雾测试	Temperature: 35 ± 3 °C Solution: 5 ± 1 % Spray time: 48 ± 4 hours Measurement must be taken after water rinse	No damage Contact resistance: Less than twice of initial	
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