

* 0650 Series Micro Universal Serial Bus Connector *

This product specification contains the test method, the general performance and requirements for 0650 Series Micro 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. When applying current only to signal terminals:

1.0 A (for terminal No. 2, 3 and 4)

2. When applying current to the power terminal:

1.8 A (for terminal No. 1 and 5),

0.5 A (for terminal No. 2, 3 and 4)

Voltage rating (额定电压) : 30Vac(rms)

Operating temperature (工作温度) : -30°C ~ +80°C.

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 100mA maximum	30mΩ maximum
3-2	Insulation Resistance (绝缘阻抗)	EIA 364-21 Test between adjacent contacts of mated and unmated connector assemblies.	100MΩ minimum
3-3	Dielectric Withstanding Voltage (耐电压)	EIA 364-20 Test between adjacent contacts of mated and unmated connector assemblies.	100Vac at sea level
3-4	Capacitance (电容)	EIA 364-30 Test between adjacent circuits of unmated connector at 1 khz	2pF 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 12.5 mm per minute.	3.57 kgf (35N)maximum
4-2	Unmating Force (拔出力)	EIA 364-13 Measure force necessary to unmated connector assemblies at maximum rate of 12.5 mm per minute	0.81 kgf (8N)minimum

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4-3	Vibration Random (振动测试)	EIA 364-28 Condition V test letter A. Subject mated connector to 5.35G's rms. 15 minutes in each of three mutually perpendicular planes.		No discontinuities of 1 us or longer duration			
4-4	Physical shock (冲击试验)	EIA 364-27Condition H. Subject mated connectors to 30G'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 1μs or longer duration.			
4-5	Durability (耐久性)	EIA 364-09 Mate and unmate connector assemblies for 1500 cycle at maximum rate of 200 cycle per hour.		No discontinuities of 1μs 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)	EIA 364-32 Test condition I Subject mated connectors to five cycles between -55℃ and 85℃		NO evidence of damage. Contact resistance less Than twice of initial. Insulation resistance: to pass para. 3-2 Dielectric withstand ing 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℃ with 90 to 95% RH.		NO evidence of damage. Contact resistance less Than twice of initial. Insulation resistance: to pass para. 3-2 Dielectric withstand ing voltage: to pass para 3-3			
5-3	Temperature Life (老化试验)	EIA 364-17 Test Condition 3 Method A Subject mated connectors to temperature life at 85℃ for 250 hours.		NO evidence of damage. Contact resistance less Than twice of initial. Insulation resistance: to pass para. 3-2 Dielectric withstand ing voltage: to pass para 3-3			

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5-4	Resistance to soldering Heat (耐焊锡热)	Soldering time:5±0.5 second Soldering pot:260±5℃		No damage and deformation			
5-5	Salt spray 盐雾测试	Temperature:35±3℃ Solution:5±1% Spray time:24±4 hours Measurement must be taken after water rinse		No damage Contact resistance: Less than twice of initial			
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