

RECOMMENDED PCB LAYOUT
THICKNESS=1.0mm (TOLERANCES ±0.05)

REV.	EGN.NO.	MODIFY CONTENT	DATE
A		NEW	2012/04/13

- 技术要求:
- 材料
 - 胶舌: 黑色胶芯 耐高温260° 左右
 - 触片: 黄铜 (表面镀层: 端子镀金 +焊接区镀锡 100u" +其它镀镍60u")
 - 外壳: 铁壳, 厚度=0.30mm (表面镀层: 镀镍 80-120u")
 - 电性能
 - 接触阻抗: 40 mohms Max
 - 绝缘阻抗: 1000 Mohms Min
 - 耐压: 500V AC 1秒
 - 工作温度: -30°C~85°C
 - 盐雾测试: 5%盐水, 35° C, 24H表面无氧化
 - 符合ROHS标准。

GENERAL TOLERANCE		DWG NO.	APPD:	WIND	Scale
X±0.45	X:±5'	JYSA0804-001	CHKD:		1:1
X±0.35	X:±2'	Title	DR:		mm
.XX±0.25	.XX'±1'	Part NO.	Date		
.XXX±0.15	.xxx'±0.5'		2012/04/13		
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杰宇森电子有限公司
JIE YU SEN ELECTRONIC CO., LTD.



PRODUCT SPECIFICATION 产品规格书

1. SCOPE

This specification defines the performance for the USB catena
此规格书适用于USB 系列

2. PRODUCT DESCRIPTION 产品说明

2.1 DESIGN AND CONSTRUCTION 结构说明

Construction and physical dimensions shall be specified on the applicable sales drawing.
尺寸标注请参阅图面

Connector consists of a metal shield, a plastic housing, terminal.
连接器包含铁壳、胶芯、端子

Solder components shall meet Lead-Free soldering requirements and the connectors shall be RoHS Compliant.

产品为无铅制程且符合RoHS规范

2.2 MATERIAL AND PLATING 材质与电镀说明

Refer to respective drawings for information on materials, plating and marking
材质规格、电镀规格与尺寸相关资讯请参阅图

3. APPLICABLE DOCUMENTS 规格描述

In the event of conflict between the requirements of this specification and the sales drawing, the drawing shall take precedence. In the event of conflict between the requirements of the specification and the referenced documents, this specification shall take precedence.
若此规格与图面提供之讯息有所冲突, 请依图面标示为主, 另此规格若与下列参考规格书资料有所冲突, 请以此规格为主.
EIA-STANDARD-364:

ELECTRICAL CONNECTOR/SOCKET TEST PROCEDURES INCLUDING ENVIRONMENTAL CLASSIFICATIONS

3.1 RATING 额定功率

Item 项目	Standard 规范
Rated Voltage (Max.) 额定电压 (最大值)	500 V AC (rms)
Rated Current (Max.) 额定电流(最大值)	2.4Max
Operating Temperature Range (操作温度)	-55° C ~ +85° C
Shipping and Storage Temperature Range (储存温度)	-40° C ~ +70° C
Ambient Temperature (Ta) (室温)	15° C ~ +35° C

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PRODUCT SPECIFICATION 产品规格说明书

3.2 TEST REQUIREMENTS AND PROCEDURES 测试规格说明

3.2.1 Electrical Performances 电性测试

Item (项目)	Requirement (规定)	Test Condition (测试条件)
Low Level Contact Resistance (接触测试)	30 mΩ Max.	Frequency:1000Hz; Current<100mA;Voltage: 20mV 频率在1000Hz 情况下, 电流<100mA, 电压: 20mV EIA 364-23
Insulation Resistance (绝缘测试)	1000 MΩ Min.	Applying DC 500V Between pin And out conductor and test it after 1min. 端子与外导体之间DC500 1min 漏电流<2mA. EIA -364-21
Dielectric Withstanding Voltage (耐压测试)	No abnormality, no breakdown, no over arc. 无异常、无击穿、飞弧	AC 500V (50 Hz ~60Hz) 1min 2mA EIA -364-20

3.2.2 Mechanical Performances 机械性能测试

Item (项目)	Requirement (规定)	Test Condition (测试条件)
Mating / Un-mating Force (插拔力测试)	Mating force (插入力)	35N(3.57kgf) Max.
	Un-mating force (拔出力)	10N (1.02kgf) Min.
Durability (寿命测试)	Contact Resistance (接触阻抗)	30 mΩ Max.
	Insulation Resistance (绝缘测试)	1000 MΩ Min.
	Dielectric Withstanding Voltage (耐压测试)	AC 500V (50 Hz ~60Hz) 1min 2mA
	Mating force (插入力)	35N(3.57kgf) Max.
	Un-mating force (拔出力)	10N (1.02kgf) Min.
	Appearance (外观)	No abnormality, no breakdown, no over arc. 无异常、无击穿、飞弧
		Mating / Un-mating at a rate of 12.5±3mm / min. 速率12.5±3 mm/min. EIA 364-13
		When Mated / un-mated up to3000 cycles repeatedly at Max. rate of 200 cycles / hr. 寿命测试3000次, 速率可调整为200次/小时 EIA 364-09

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3.2.3 Environmental Performances 环境测试				
Item (项目)	Requirement (规定)		Test Condition (测试条件)	
Vibration (振动测试)	Appearance (外观)	No damage	Mate connectors and vibrate 15 minutes in each direction of each axis. 连接器放置于测试机台后于X轴Y轴各震动15分钟依规定检验是否合格	
	Contact Resistance (接触阻抗)	30mΩ Max		
	Discontinuity (断讯)	25 Microsecond max.		
Temperature Life (Heat Resistance) (高温测试)	Appearance (外观)	No Damage	Mate plugs and expose to 85 +/- 2 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 the specified measurements shall be performed 在环境温度85℃条件下连续测试96小时后, 放置于室温环境下1~2小时, 再依规定检验是否合格	
	Contact Resistance (接触阻抗)	30mΩ Max		
	Insulation Resistance (绝缘阻抗)	1000 MΩ Min.		
	Dielectric Strength (介电质强度)	No breakdown		
Humidity Steady State (恒温恒湿测试)	Appearance (外观)	There shall be no remarkable corrosion	Expose to a temperature of 40 ±3° C with a relative humidity of 90~95% for 96 hours. 在环境温度40 ± 3° C与湿度90~95%条件下测试96小时后, 再依规定检验是否合格 EIA-364-31	
	Contact Resistance (接触阻抗)	30mΩ Max		
	Insulation Resistance (绝缘阻抗)	1000 MΩ Min.		
	Dielectric Strength (介电质强度)	No breakdown		
Cold Temperature Life (低温测试)	Appearance (外观)	No damage	Mate plugs and expose to -55℃ ±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 the specified measurements shall be performed 在环境温度-55℃ ±2° C条件下连续测试96小时后, 放置于室温环境下1~2小时, 再依规定检验是否合格	
	Contact Resistance (接触阻抗)	30mΩ Max		
	Insulation Resistance (绝缘阻抗)	1000 MΩ Min.		
	Dielectric Strength (介电质强度)	No breakdown		
Thermal shock (Temperature cycling) (冷热冲击测试)	Appearance (外观)	No damage	Mate plugs and subject to the flowing conditions for 5 cycles, 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. 1 cycle a) -55 ± 3°C 30 minutes. b) +85 ± 2°C 30 minutes. 测试5个周期, 每周期1小时, 低温温度为-55℃, 高温温度为+85℃后放置于室温条件下1~2小时, 依规定检验是否合格 EIA-364-32C	
	Contact Resistance (接触阻抗)	30mΩ Max		
	Insulation Resistance (绝缘阻抗)	1000 MΩ Min.		
	Dielectric Strength (介电质强度)	No breakdown		
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3.2.3 Environmental Performances 环境测试

Item (项目)	Requirement (规定)	Test Condition (测试条件)
Salt Spray (盐雾测试)	Appearance (外观)	By visual inspection without noticeable rust. 目视无生锈或其他不良
	Contact Resistance (接触阻抗)	30mΩ Max
		Mate plugs and expose to the following salt mist conditions. Upon completion of the exposure period, salt deposits shall be removed by a gentle wash or dip in running water, after which the specified measurements shall be performed. NaCl solution Concentration: 5 ± 1 % Spray time: 48 ± 4 h Ambient Temperature: 35 ± 2 °C 测试液NaCl浓度5%, 与清水混合做试剂, 测试时间48小时后, 再以清水清洗干净, 依规定检验是否合格
Solder - Ability (焊锡测试)	Solder Wetting (焊锡性)	95% of immersed area must show no voids or pin holes 焊锡面积95%内无缝隙与空洞
		Dip solder-tails in flux then immerse in solder bath at 245 ± 5 °C up to 0.5 mm from the bottom of the housing for 4 ~ 5 seconds 端子尾端至胶芯约0.5mm浸浴在锡炉内4~5秒时间, 锡炉温度为245 ± 5 °C, 依规定检验是否合格
Resistance to soldering heat 回流焊测试	Without any deformation of case or excessive looseness of the terminals (pins). Electrical characteristics shall be satisfied. 连接器无变形或退pin之现象, 电性测试无异常	For procedures other than specified below, refer to IEC PUB. 68-2-20. Test Tb Method 1A or 2 Solder bath method Solder temperature: 260 ± 5 °C Immersion time: 10 ± 1 second. Thickness of PCB: 0.8 mm Solder iron method Solder temperature: 350 ± 10 °C Immersion time: 3 ± 1 second. However, excessive pressure shall not be applied to the terminal. 对于以下设定测试标准之外, 另可参照 IEC PUB. 68-2-20 回流焊测试 焊锡温度260 ± 5 °C, 时间: 10 ± 1秒 ; PCB板厚度: 0.8mm 烙铁测试 焊锡温度: 350 ± 10 °C, 时间: 3 ± 1秒 依规定检验是否合格

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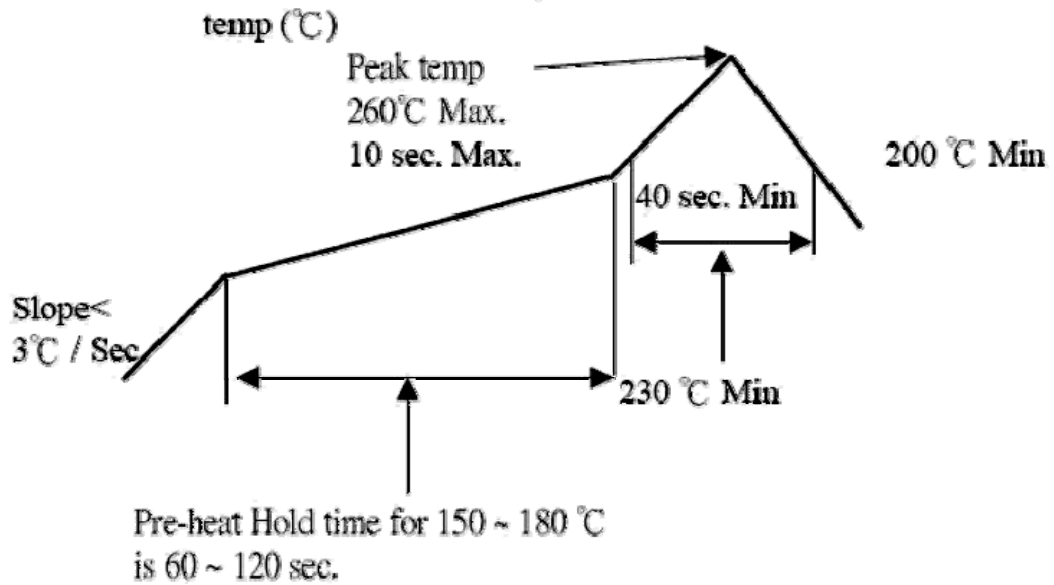
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4.0 INFRARED RE-FLOW CONDITION



5.0 PACKAGING 包装

Parts shall be packaged to protect against damage during handling, transit and storage.
Receptacles will be supplied in lattice and Box.
零件包装方式为格子盒包装，包装避免于运送过程中零件受撞击造成损伤

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深圳市杰宇森电子有限公司

測試報告

產品名稱 Product Name	USB AF 短体	測試日期 Test Date	18.06.24~18.0 4.28	報告編號 Report NO.	No: 180628					
料號 (P/N)	JYS-USB106-005	樣品數量 Quantity	5PCS	測試環境 Measuring Environment	溫度Temp:24~26°C 相對濕度R.H.:54%~58%					
序號 NO.	測試項目 Testing Item	測試條件 Testing Conditions	測試設備 Testing Equipment	規格 SPEC	測試記錄Testing Result					判定Judge
					1	2	3	4	5	
1	Contact resistance	Test current:100mA Full scale voltage:20mV	DIGITAL MICRO-OHMMETER (YD2511)	30 mΩ Max	10.51 mΩ	10.73 mΩ	10.45 mΩ	10.54 mΩ	10.15 mΩ	ACCEPTED
2	Insulation resistance	Test voltage:500VDC Operation stated:2min	ULTRA HIGH RESISTANCE METER (TH2683)	1000MΩ Min	2685 GΩ	3145 GΩ	2476 GΩ	2315 GΩ	2741 GΩ	ACCEPTED
3	HI-POT	Test voltage:500VAC Cut-off current:2mA Operation stated:1 min	BREAKDOWN TESTER (CJ2671A)	No abnormalities	PASS	PASS	PASS	PASS	PASS	ACCEPTED
4	Insertion and withdrawal force	Rate:7.5±3mm/min	FORCE GUAGE (1220S)	插入力 Insertion force 3.57kgf MAX	2.08 kgf	2.05 kgf	2.17 kgf	2.06 kgf	2.09 kgf	ACCEPTED
				拔出力 withstand force 1.02kgf Min	1.12k gf	1.15 kgf	1.29 kgf	1.13 kgf	1.14 kgf	ACCEPTED
5	Durability	Rate:200±5cycles/hour Total:1500 cycles	LIFE TESTER	No abnormalities	PASS	PASS	PASS	PASS	PASS	ACCEPTED
6	Steam aging	Temperature: 93±3°C Duration:8H	AGING TESTER	≥95%	PASS	PASS	PASS	PASS	PASS	ACCEPTED
7	Salt spray	Temperature: 35±1°C Concentration :5±1 % Duration:24H	SALT SPRAY TESTER	cauterization grade: 12~24	PASS	PASS	PASS	PASS	PASS	ACCEPTED
8	Solder ability	Temperature: 265±5 °C Duration:5sec	CONTROLLED CONSTANT-TEMP SOLDER POT	Solder areas 95% minimum	PASS	PASS	PASS	PASS	PASS	ACCEPTED
判定 Result	<input checked="" type="checkbox"/> 合格 (ACCEPT) <input type="checkbox"/> 不合格 (REJECT)									

審核(Approver): 王 俊 2018.6.28

測試(Tester): 黃建波 2018.6.28