











RECOMMENDED PCB LAYOUT(TOP VIEW) THICKNESS 0.80MM; DEFAULT TOLERANCE:?.05

PIN ASSIGNMENTS

A1	GND	B12	GND
A4	VBUS	B9	VBUS
A5	CCI	B8	SBU2
A6	DPI	B7	DN2
A7	DNI	B6	DP2
A8	SBU1	B5	CC2
A9	VBUS	B4	VBUS
A12	GND	B1	GND
PIN	SIGNAL NAME	PIN	SIGNAL NAME

NOTE:

- 1.MATERIAL SPECIFICATION:
- 1.HOUSING:HIGH TEMPERATURE RESISTANT PLASTIC, UL94 V-0.
- 2.CONTACTS:COPPER ALLOY
- 3.MID PLATE: STAINLESS STEEL
- 4.FRONT SHELL: STAINLESS STEEL
- 2.PLATING SPECIFICATION:
- 2-1.CONTACTS:
- Ni 50u" MIN. UNDER PLATED OVER ALL.
- Au PLATED ON THE FUNCTIONAL AREA OF CONTACT.
- (GOLD PLATING THICKNESS FOLLOW THE P/N)
- PLATING SPECIFICATIONS OF THE SOLDER AREA FOLLOW THE P/N
- 2-2.FRONT SHELL:

SEE TABLE1.

2-3.SHIELD PLATE&EMI PLATE:

CLEAR ONLY

- 3.MECHANICAL PERFORMANCE,
 - 3-1.INSERTION FORCE: 0.5~2.0kgf.
 - 3-2.REMOVAL FORCE: 0.8kgf~2.0kgf.
 - 3-3.DURABILITY: 10000 CYČLES.
- 4.ELECTRICAL PERFORMANCE.
 - 4-1. CURRENT RATING: 3.0A
 - **VOLTAGE RATING:5.0V**
 - 4-2. LLCR:
 - VBUS & GND PINS AND OTHER PINS: 40mΩ/PIN MAX. SHIELD: $50m\Omega/MAX$. LLCR MAX. CHANGE OF ALL PINS: $10m\Omega$.
 - 4-3.INSULATION RESISTANCE: 100MΩ MIN
 - 4-4.DIELECTRIC WITHSTAND VOLTAGE.AC 100V FOR 1 MINUTE.
- 5. ENVIRONMENTAL PERFORMANCE:

OPERATING TEMPERATURE: -25°C~+85°C.

6.IR REFLOW:

X.XXX ±0.05

THE PEAK TEMPERATURE ON THE BOARD SHALL BE MAINTAINED FOR 10 SECONDS AT 260°C.

UNLESS OTHERWSE **分** 深圳市首韩科技有限公司 SPECIFED TOLERANCES TITLE. DECIMALS: TYPE-C 16PIN 2MD(073) **ANGLES** PART NO. Drdwn. Х*. ±2° ±0.20 李春风 PROJ. Checked. SCALE. ±1° 钟华华 X.X ±0.15 X.X* 1:8 SHEET. 1 OF 1 REV. Approved. X.XX ±0.10 X.XX. $\pm 0.5^{\circ}$ Α

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深圳市首韩科技有限公司

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承认书

SPECIFICATION FOR APPROVAL

产品编码 material code:	
产品名称 Project:	TYPE-C
规格型号 Part No:	TYPE-C 16PIN 2MD(073)

贵公司承认印 Approval signatures

料号/Part No.	签 章/Signatures

日期 Date:

拟制/Drawn	李春风	2. 省苗科技有限 2.
审核/Check	钟华华	THE WAR THE
批准/Approved	罗孝金	工程专用草



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RAT	ING(额定值):	DC 5V 3A		
PRACTICAL TEMPERATURE RANGE 使用温度范围		-25~85° C 在-25° C~+85° C 温度内使用		
STANDARD ATMOSPHEIC CONDITIONS 测试标准状度		UNLESS OTHERWISE SPECIFIED THE STANDARD RANGE OF ATMOSPHERIC CONDITIONS FOR MAKING MEASUREMENTS AND TESTS ARE AS FOLLOWS: (1) BETWEEN BODY AND CONDUCTOR: 5°C TO 35℃ (2) BETWEEN CONDUCTORS NOT TO BE CONTACT: 45% TO 85% (3) PRESSURE: 86Kpa TO 106Kpa 在没有指定的情况下测试温度、湿度、气压如下: (1) 温度为 5℃~35℃ (2) 湿度为 45%~85% (3) 气压为 86 Kpa~106Kpa		
MEC	CHANICAL(机械	性能)		
	ITEM 项目	TEST CONDITIONS 测试条件	PERFORMANCE 规格	
1	CONNECTION FORCE 插入力度	MEASUREMENT SHALL BE MADE AFTER CONNECTING AN DISCONNECTING USING STANDARD PLUG GAUGE 3 TIMES。依据标准的 PLUG GAUGE 做第 3 次拔插后测定		
	DISCONNECTI ON FORCE 拔出力度	MEASUREMENT SHALL BE MADE AFTER CONNECTING AN DISCONNECTING USING STANDARD PLUG GAUGE 3 TIMES。依据标准的 PLUG GAUGE 做第 3 次拔插后测定		
2	TERMINAL STRENGTH 端子强度	A STATIC LOAD OF 0.1N/m(1kgf/cm)SHALL BE APPLIED TO THE TIP OF THE TERMINAL FOR 1 MIN IN ANY DIRECTION 向排脚先端的任意一个方向加 1 分钟 0.1N/m(1kgf/cm)的力度.	THERE SHALL BE NO DAMAGE TO THE TERMINAL SUCH AS CRACKS, LOOSENESS OR PLAY ELECTRICAL, AND MECHANICAL CHARACTERISTICS SHALL BE SATISFIED 在排脚中没有裂开、松动等异常,满足于机械、电气性能	
ELE	 CTRICAL(电气性			
	ITEM 项目	TEST CONDITIONS 测试条件	PERFORMANCE 规格	
3.1	CONTACT RESISTANCE 接触电阻	MEASURED AT SMALL CURRENT (100m A OR LESS) 1000Hz 在微小电流(100 m A)以下测试	40m Ω	
3.2	INSULATION RESISTANCE 绝缘电阻	APPLY A VOLTAGE OF 100V DC FOR 1 MIN TO FOLLOWING PORTIONS AFTER WHICH MEASUREMENT SHALL BE MADE: (1) BETWEEN BODY AND CONDUCTOR (2) BETWEEN CONDUCTORS NOT TO BE CONTACT (3) BETWEEN CONDUCTORS NOT TO BE WHEN PLUG IS INSERTED DC100V 1 MIN 输入 100V DC 电压 1 分钟,按以下接触方法测试: (1) 插座体与排脚之间 (2) 不接触的排脚之间 (3) 插头插入时不接触排脚之间	100M Ω	



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3.3	DIELECTRIC STRENGTH 耐电压	AC 100V ims(50~60Hz)FOR 1 MIN TRIP CURRENT:0.5mA (1) BETWEEN BODY AND CONDUCTOR (2) BETWEEN CONDUCTORS NOT TO BE CONTACL (3) BETWEEN CONDUCTORS NOT TO BE WHEN PLUG IS INSERTED DC 100V 1 MIN 输入 AC 100V(50Hz)/min 电压 1 分钟感度电流为 0.5mA, 按以下接触方法测试: (1) 插座体与排脚之间 (2) 不接触的排脚之间 (3) 插头插入时不接触排脚之间	WITHOUT DAMAGE TO PARTS ARCING OR BREAKDOWN ETC 没有绝缘破坏等异常
URAB	ILITY (耐久性)		
	ITEM 项目	TEST CONDITIONS 测试条件	PERFORMANCE 规格
4. 1	SOLDERA- BILITY TEST 可焊性试验	THE TOP OF THE TERMINALS SHALL BE DIPPED 1mm IN THE SOLDER BATH OF 250±5℃ FOR 5±0.5 SECONDS 端子顶部被浸入锡池中 1mm 深,温度为 250±5℃,时间为 5 ±0.5 秒	(1) SOLDER WETTING TIME SHALL BE 3 SEC OR LESS 焊接时间应少于 3 秒 (2) THE AREA OF SOLDERING SHOULD BE OVER 75% 焊接面积应有 75%以上
4.2	RESISTANCE TO SOLDERING HEAT TEST 耐焊性试验	REFLOW SOLDERING CONDITIONS: PREHEAT:TEMPERATURE ON THE COPPER FOIL SURFACE SHOULD REACH 180 .120S AFTER THE P.C.B ENTERED INTO THE SOLDERING EQUIPMENT. TALLEST TEMPERATURE:TEMPERATURE ON THE COPPER FOIL SURFACE SHOULD REACH THE PEAK TEMPERATURE OF 260±5 WITH IN 20 SECONDS. 过回流焊条件: 预热:电镀层表面的温度应达到 180°C,120s 后电路板进入回流焊设备。 最高温度:电镀层表面温度最高为 260±5°C 且停留不超过 20 **Profile** **Time inside soldering equiom ent Temperature Profile**	WITHOUT DEFOR MATION OF CASE OR EXCESSIVE LOOSENESS OF TEMINALS ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED 本体无变形,满足于机械、电气性能



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4. 2	RESISTANCE TO SOLDERING HEAT TEST 耐焊性试验	SOLDERING IRON METHOD: BIT TEMPERATURE 330±5℃ APPLICATION TIME OF SOLDERING IRON3±0.5 SEC HOWEVER EXCESSIVE PRESSURE SHALL NOT BE APPLIED TO THE TERMINAL 手焊接的时候温度需控制在330±5℃ ,时间 为3±0.5 秒,但不能在排脚上施加异常压力。	WITHOUT DEFORMATION OF CASE OR EXCESSIVE LOOSENESS OF TEMINALS ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED 本体无变形,满足于机械、电气性能	
4. 3	HUMIDITY TEST 潮湿试验	THE JACK SHALL BE STORED AT A TEMPERATURE OF 40 ± 2 C AND A HUMIDITY OF 90% TO 96% FOR 96 Hr,THEN THE JACK SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITION FOR 1 Hr FOR OTHER PROCEDURES 放置 40 ± 2 C 的相应湿度为 $90\sim96$ % Hr 环境中 96 小时后,再将样板放在正常环境中 1 小时后进行测试	THERE SHALL BE NO DAMAGE ON APPEARANCE。 MECHANICAL AND ELECTRICAL	
4.4	HEAT TEST 耐热试验	THE JACK SHALL BE STORED AT A TEMPERATURE OF70±2℃ FOR 96 HOURS, AND THEN IT SHALL BE SUBJECTED TO THE CONTROLLED RECOVERY MBASURBM 放置在温度 70±2℃中测试 96 小时后,再放置正常室温中 1 小时来测定	CHARACTERISTICS SHALL BE SATISFIED 外观无异常,满足于机械、电气性能。	
4. 5	COLD TEST 耐寒试验	THE JACK SHALL BE STORED AT A TEMPERATURE OF-25±3℃ FOR 96 HOURS AND THEN IT SHALL BE SUBJECTED TO THE CONTROLLED RECOVERY CONDITIONS FOR 1 HOUR AFTER WHICH 放置在温度-25±3℃中 96 小时后,再放置常温常湿中 1 小时来测定	THERE SHALL BE NO DAMAGE ON APPEARANCE MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED 外观无异常,满足于机械、电气性能	
4. 6	LIFE TEST 寿命试验	WITHOUT LOAD CONNECTION AND DISCONNECTION SHALL BE MADE WITH THE MATING PLUGS AND JACKS FOR 10000 CYCLES AT A SPEED OF 10 TO 25 CYCLES/MIN 无负荷 将结合了的标准Plug(尽量要近于中心的)在1分钟内以10-25的速度,进行10000次插入,拔出 LOAD: AT RATING CONDITION (NON-INDUCTIVE LOAD) CONNECTION AND DISCONNECTION SHALL BE MADE 10000 CYCLES AT A SPEED 10 TO 20 CYCLES / MIN 负荷 以定格状态(无诱导负荷)在1 分钟内以10-20次 的速度进行 10000 次插入、拔出	(1) CONTACT RESISTANCE SHALL BE ≤ 0.1 Ω (2) DISCONNECTION FORCE SHALL BE 0.8 TO 2.0N (3) MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED (1) 接触电阻≤0.1 Ω (2) 拔出力是 0.8~2.0Kgf (3) 其它:满足于机械,、电气性能	



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