

深圳市鼎泓泰电子科技有限公司
SHENZHEN DHONGTAI ELECTRONICS TECHNOLOGY CO., LTD.

样品承认书
SAMPLE APPROVAL CERTIFICATE

Customer Name: _____
产品描述:
Description: USB TYPE C 16PIN 母座 三次 模顶 高导铜
物料编号:
Material No.: CUSB-201N03A03H-B
客户料号:
Customer P/N: _____
送样数量:
Sample Q'ty: 10PCS
送样日期:
Submission Date: _____
承认书编号
Certificate No: _____

Customer Approved By			DHongTai Approved By			
Purchase Dept.	QA Dept.	Engineering Dept.	Marketing Dept.	QA Dept.	Engineering Dept.	Prepared By
				杨建峰	周青云	王学庆

说明： 此承认书一式 贰 份， 请客户批准后回签一份。

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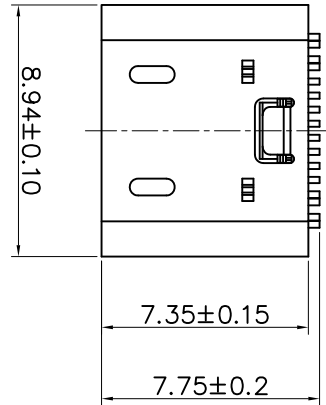
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Factory Address: 3rd Floor, Building A, Wan li feng Industrial Park, No. 2, South Road, Wushahuan , Chang'an Town, Dongguan.

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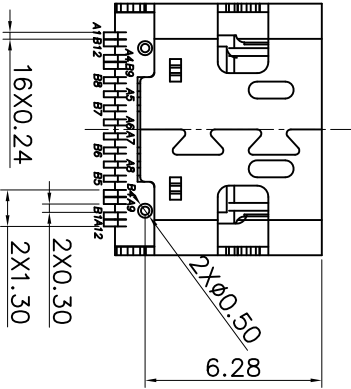
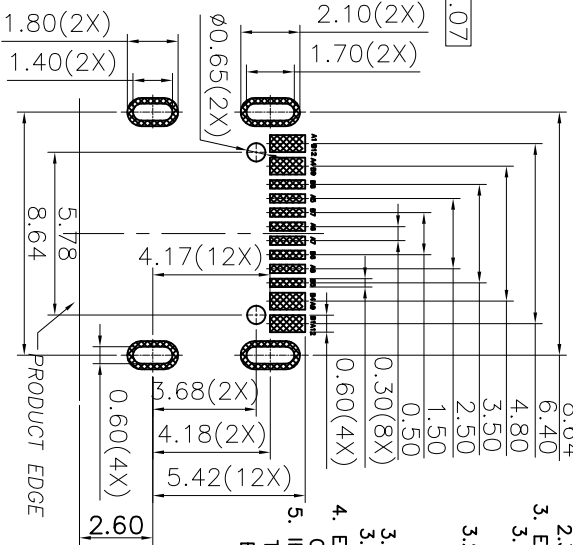
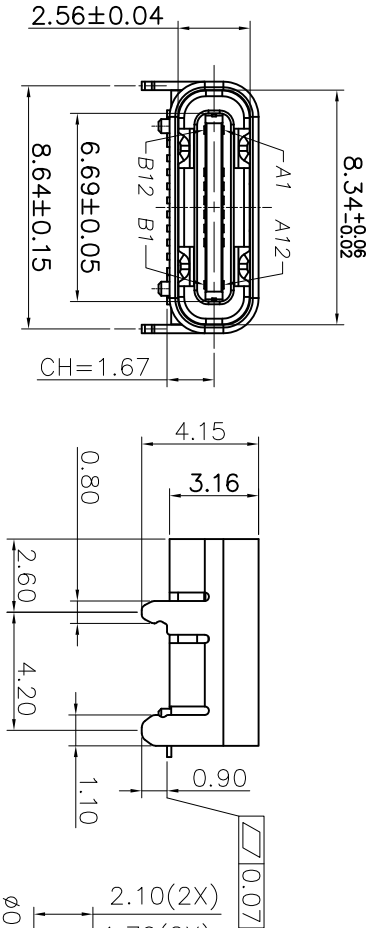
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USB TYPE-C PIN ASSIGNMENTS

PIN NUMBER	SIGNAL NAME	PIN NUMBER	SIGNAL NAME
A1	GND	B12	GND
A4	VBUS	B9	VBUS
A5	CC1	B8	SBU2
A6	Dp1	B7	Dn2
A7	Dn1	B6	Dp2
A8	SBU1	B5	CC2
A9	VBUS	B4	VBUS
A12	GND	B1	GND

- NOTE:
- MATERIAL SPECIFICATION:
 - HOUSING:HIGH TEMPERATURE RESISTANT PLASTIC,U194 V-0.
 - CONTACTS:COPPER ALLOY
 - FRONT SHELL: STAINLESS STEEL
 - MID PLATE: STAINLESS STEEL
 - MECHANICAL PERFORMANCE:
 - INSERTION FORCE: 5~20N.
 - REMOVAL FORCE: 8~20N.
 - DURABILITY: 10000 CYCLES.
 - ELECTRICAL PERFORMANCE:
 - CURRENT RATING:5.0A
 - VOLTAGE RATING:20V
 - LCR: VBUS & GND PINS AND OTHER PINS: 40mΩ/PIN MAX. SHIELD: 50mΩ/MAX.
 - LCR MAX. CHANGE OF ALL PINS: 10mΩ.
 - INSULATION RESISTANCE: 100MΩ MIN
 - DIELECTRIC WITHSTAND VOLTAGE:AC 100V FOR 1 MINUTE.
- ENVIRONMENTAL PERFORMANCE:
OPERATING TEMPERATURE: -25℃~+85℃.
- IR REFLOW:
THE PEAK TEMPERATURE ON THE BOARD SHALL BE MAINTAINED FOR 10 SECONDS AT 260℃.



RECOMMENDED PCB LAYOUT(TOP VIEW)
THICKNESS: 0.80MM;DEFAULT TOLERANCE:±0.05

P/N	LOGO	MYLAR	SHELL	CONTACT	SOLDER	PAKING	SHELL MATERIAL
CUSB-204N01A01			NI	Fu" Au	Fu" Au	REEL	SUS
X. ±0.20 X°. ±2°			产品名称Product Name	客户料号Customer Item:	模具编号Tool NO.:	工程图号Tool NO.:	版本Rev.
.X ±0.15 .X° ±1.5°							
.XX ±0.10 .XX°							
.XXX ±0.05 .XXX°	单位Unit: mm	物料编号Material No.:	深圳市鼎泓泰电子科技有限公司				
批准:APPROVED: 日期Date: 审核:CHECKED: 日期Date: 设计DESIGNED: ZXF 日期Date: 2020, 07, 06 比例Size: 1/1							
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产品规格书

PRODUCT SPECIFICATION

1.适用范围 SCOPE

本规格书适用于：USB 2.0 C TYPE Male/Female 连接器

This specification covers USB 2.0 C TYPE Male/Female Connectors series.

2.产品名称及型号 PRODUCT NAME AND PART NUMBER

产品名称 Product Name	产品型号 Part Type
USB 2.0 C TYPE Male/Female 连接器	CABLE END & DIP & SMT

3.定格 RATINGS

项目 Item	规 格 Requirement	
最大容许电压 Rated Voltage (MAX)	20V	[AC (有效值 rms) /DC]
最大容许电流 Rated Current (MAX)	5.0 (VBUS 5.0A & GND 0.25A)	
使用温度范围 Ambient temperature Range		- 25℃ ~ +85℃

4.性能 PERFORMANCE

4.1 电气性能 Electrical Performance

项目 Item		条件 Test Condition	规格 Requirement
4.1.1	接触电阻 Contact Resistance	适合 USB 2.0 C TYPE Male/Female 实配；开放电压 20mV 以下；短路电流 100mA 的状态下测定。 Mate applicable USB 2.0 C TYPE Male / Female and measure by dry circuit,20mV MAX&100mA。	40 mΩ MAX
4.1.2	绝缘电阻 Insulation Resistance	适合 USB 2.0 C TYPE Male/Female ;相邻端子间或端子与地面间加 DC 100V 下测定。 Mate applicable USB 2.0 C TYPE Male / Female and apply 100V DC between adjacent terminal or ground.	100 MΩ MIN

4.1.3	耐电压 Dielectric Withstanding Voltage	<p>适合 USB 2.0 C TYPE Male/Female ;相邻端子间或端子与地面间加 AC 100V (有效值) 历时 1 分钟下测定。</p> <p>Mate applicable USB 2.0 C TYPE Male / Female and apply 100V AC (rms) for 1 minute between adjacent terminal or ground.</p>	<p>无击穿现象</p> <p>No Breakdown</p>
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4.2 机械性能 Mechanical Performance

项目 Item		条 件 Test Condition	规格 Requirement
4.2.1	插入力及拔出力 Insertion and Withdrawal Force	<p>适合 USB 2.0 C TYPE Male/Female ;用每分钟 12.5mm 的速度 ; 平行地插入、拔出。</p> <p>Insert and extract applicable USB 2.0 C TYPE Male / Female at the speed rate of 12.5 mm/minute.</p>	<p>插入力 Insertion 5N MIN</p> <p>拔出力 Withdrawal 8N MIN</p>
4.2.2	耐久性测试 Durability	以用每分钟 12.5mm 的速度配合对插 mate/Unmate cycles at speed of 12.5mm/min.	10000 Cycles

4.3 环境和其他性能 Environmental Performance and Others

项目 Item		条 件 Test Condition	规格 Requirement	
4.3.1	耐寒性 Cold Resistance	<p>适合 USB 2.0 C TYPE Male /Female 实配 ; -55 ±2℃的空气中 ; 放置 96 小时 ; 再回到室温中放置 1~2 小时。 -55±2℃ , 96 Hours</p>	外观 Appearance	无损坏 No Damage
			接触抵抗 Contact Resistance	50 mΩ MAX
4.3.2	耐寒性 Humidity	<p>适合 USB 2.0 C TYPE Male/Female 实配 ; 40± 3℃、相对湿度 90-95%的空气中 , 放置 96 小时 ; 再回到室温中 0.5 小时内测定</p> <p>Temperature : 40 ± 3 °C Relative 、 Humidity : 90-95% 、 Duration : 96 Hours.</p>	外观 Appearance	无损坏 No Damage
			接触抵抗 Contact Resistance	50 mΩ MAX
			耐电压 Dielectric Strength	必须满足 4.1.3 Must meet 4.1.3
			绝缘抵抗 Insulation Resistance	100 MΩ MIN
4.3.3	可焊性 Solderability	<p>端子浸入 230±5℃的锡槽中 ; 历时 3 ~ 5S±0.5 Sec.</p> <p>Soldering Time:3 ~ 5± 0.5Sec,Soldering Temperature: 230±5℃</p>	沾锡性 Solder Wetting	沾锡面积 95%以上
项目 Item		条 件 Test Condition	规格 Requirement	

4.3.4	耐焊接热 Resistance to Soldering heat (Cable end & DIP)	<p>部件应能承受以下焊接条件 :温度 235℃ ,时间 8 ~ 10 秒。</p> <p>Parts shall withstand the following soldering conditions:-temperature 235℃ for 8 ~ 10s</p>	外观 Appearance	无损坏、变形 No Damage
	耐焊接热 (回流焊) Resistance to Soldering heat (I.R.Process Soldering for SMT)	<p>部件应能承受以下 I.R 焊接两个条件 :温度 0 ~ 260℃ 的流动空气进行 8 分钟试验</p> <p>-峰值温度 260℃ 为 8 ~ 10 秒</p> <p>Parts shall withstand the following I.R.reflow soldering conditions twice:-temperature 0 ~ 260℃ for 8 min air and/or nitrogen atmosphere</p> <p>-peak temperature 260℃ for 8 ~ 10S。</p>	外观 Appearance	无损坏、变形 No Damage

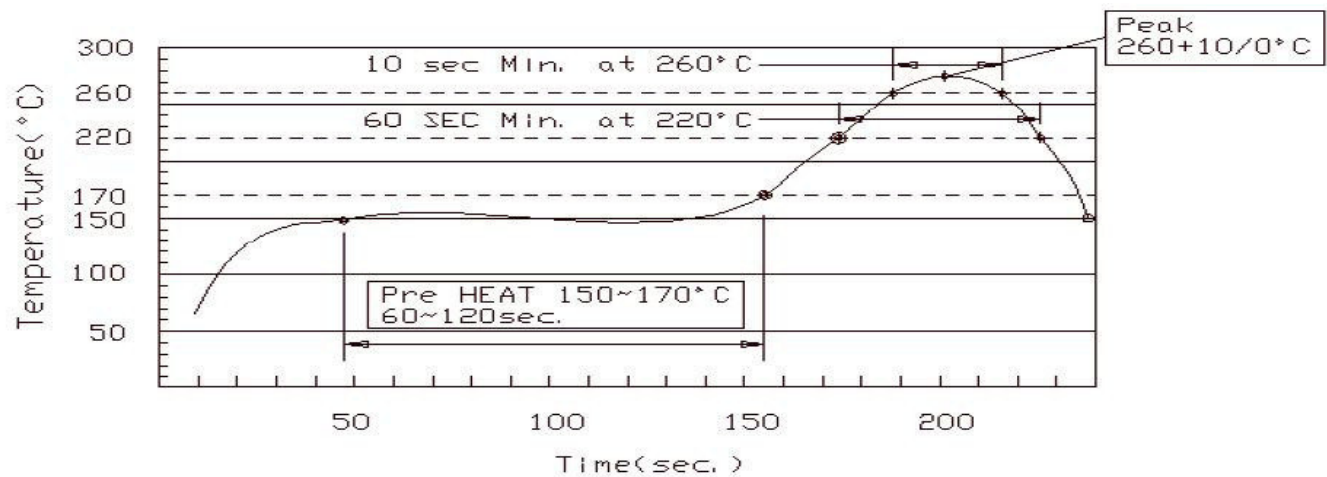


Fig.1 Temperature profile of Infrared Reflow Soldering for evaluation

