深 圳 市 琦 捷 电 子 有 限 公 司

承　　认　　书

SPECIFICATION

品　　名　　电池座

STYLE　NAME

规　　格　　CR1220-2

SIZE

客户名称

CUSTOMER

客户物料号

CUSTOMER　TYPE

客户承认

CUSTOMER　APPROVED

APPROVED 客户承认	CHECKED 核准	PREPARED 制订
	刘仲训 2020.2.25	徐　亮 2020.2.25

QJ.CELL

产品规格书
PRODUCT SPECIFICATION

产品系列Product Series:		版本REVISION:	页码SHEET No.
BATTERY JACK		A/1	1 of 3
修订REVISED BY: 徐亮	审核CHECKED BY: 刘仲训	批准APPROVED BY: 刘 奇	发布日期Issued Date: 2020-2-25

1.0 适用范围SCOPE

该规格书包含和覆盖纽扣式电池插座产品必要的机械性能、电气性能、环境性能及相关的测试方法。This Product Specification covers the mechanical, electrical and environmental performances requirements and test methods for BATTERY JACK series products.

2.0 说明APPLICABLE DOCUMENTS AND SPECIFICATIONS

所列入的所有文件中，如产品图和规格书有冲突的地方，请以产品图为准。如参考文件和规格书有冲突的地方，请以规格书为准。 The following documents form a part of this specification to the extent specifed herewith. In the event of conflict between the requirements of the specifcation and the product drawing, the product drawing shall take precedence. In the event of confict between the requirements of the specification and the referenced documents, this specification shall take precedence.

3.0 材质和结构尺寸MATERIAL AND CONSTRUCTION

产品的材质、结构及尺寸，请参考产品图。 Material、construction and physical dimensions refer to product drawings.

4.0 产品性能及实验说明PERFORMANCE AND TEST DESCRIPTION

4.1 产品所必须具备的机械、电气、环境性能，请参照5.0。Connector shall be designed to meet the electrical, mechanical and environmental performances requirements specified in 5.0.

4.2 额定电压VOLTAGE: 12V DC

4.3 额定电流CURRENT: 0.5ADC

4.4 温度条件TEMPERATURE

工作温度Operating Temperature Range: -40℃ to +80℃

贮藏温度 Storage Temperature Range: -10℃ to +55℃

5.0 机械、电气、环境性能及测试方法Test Requirements and Procedures

NO.	DESCRIPTION	TEST CONDITION	REQUIREMENT
5.1	接触电阻 Contact Resistance	开放电压20mV以下，短路电流10mA的状态下测定。Measure by dry circuit,20 mV MAX,10 mA.	30 mΩ MAX
5.2	绝缘电阻 Insulation Resistance	相邻端子间或端子与地面间加DC500V下测定。 Apply 500V DC between adjacent terminal or ground.	100 M2 MIN

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修订REVISED BY; 徐亮	审核CHECKED BY; 刘仲训	批准APPROVED BY: 刘奇	发布日期Issued Date: 2020-2-25

NO.	DESCRIPTION	TEST CONDITION	REQUIREMENT
5.3	耐电压 Dielectric Withstanding Voltage	相邻端子间或端子与地面间加AC500V(有效值)持续1分钟下测定。Apply 500V AC(ms.)for 1 minute between adjacent terminal or ground.	无击穿、飞弧 No Breakdown
5.4	插入力/拔出力 Insertion Forcel Withdrawal Force	以每分钟25±3mm的速度，平行地插入、拔出。 Insert and withdraw connectors at a rate of 25±3mm per minute	5～30N
5.5	寿命试验 Life Test	以每小时100±20次的频率机械性插拔1500次。 Automatic cycling:1500 cycles at 100±20 cycles per hour	满足以下要求 satisfy the following 接触电阻：100 m 2 MAX 5.2/5.3/5.4
5.6	耐盐雾性 Salt Spray	使用35±2℃、5±1%的盐水喷雾24小时；试验后常温水洗，再室温干燥。 24 hours exposure to a salt spray from the 5±1% solution at 35±2℃	外观无损坏 No Damage 接触电阻Contact Resistance:100 m 2 MAX
5.7	可焊性 Solder ability	塑胶基准面1.2mm以下端子部分浸入245±5℃的锡槽中，历时2-3秒。 Soldering Time:2-3 sec.Soldering Temperature:245±5℃ 1.2 mm from housing tip.	锡沾覆面积90%以上 90% of immersed area must show
5.8	耐焊接热 Resistance to Soldering heat	塑胶基准面0.2mm以下端子部分浸入265±5℃的锡槽中，历时10±0.5秒。 Soldering Time:10±0.5 sec Soldering Temperature:265±5℃ 0.2 mm from housing tip	无损坏、变形 No Damage
5.9	高温试验 Heat test	把产品放置85℃±2℃的试验环境下，持续96小时。 The jack shall be subjected to temperature of 85℃±2℃ for a period of 96 hours.	满足以下要求 satisfy the following 接触电阻：50 mΩ MAX 5.215.3/5.4

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徐亮	刘仲训	刘奇	2020-2-25

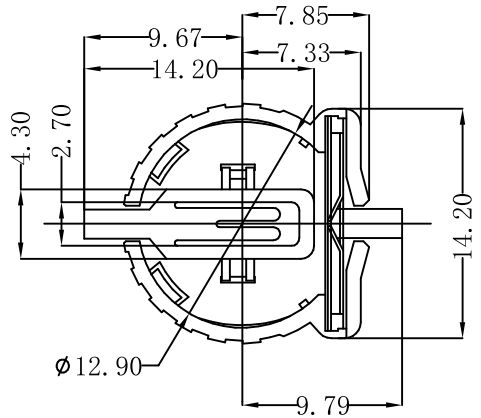
NO.	DESCRIPTION	TEST CONDITION	REQUIREMENT
5.10	低温试验 Cold test	把产品放置-25℃±2℃的试验环境下，持续96小时。 The jack shall be subjected to temperature of -25℃±2℃ for a period of 96 hours.	满足以下要求 satisfy the following 接触电阻：50 m Ω MAX 5.2/5.3/5.4
5.11	高温高湿测试 Humidity test	把产品放置在温度40℃±2℃、相对湿度90~95%以上的试验环境下，持续96小时。The jack shall be subjected to temperature of 40℃±2℃,90~95%RH for a period of 96 hours	
5.12	高低温循环 (冷热冲击试验) Temperature cyclic test	把产品在-40~+80℃循环变化温度环境下，每临界温度持续半小时，持续循环5次。 The Jack shall be subjected to the conditions of -40~+80℃ cyclic test, remain in each temperature for 0.5 hour, changing time is three minute less, 5 cycles of following test.	

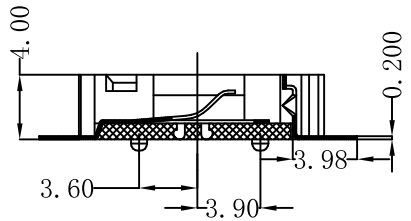
6.0 包装要求，详见附包装图Package refer to Packing Drawings.

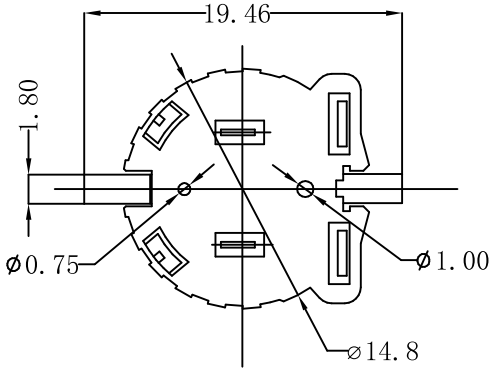
7.0环保要求Requirements of Environmental Protection

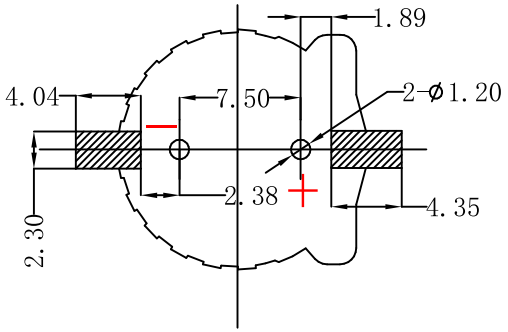
产品所有材质符合RoHS或客户其他特殊要求All of material used by the product must comply with RoHS and special requirements.

REV.	ECN NO.	REVISED	DATE









PCB Layout Diagram

Top View

NOTE:

1.MATERIAL:

a.HOUSING:PPS

ɔ.CONTACT:PHOSPHOR BRONZE

(SURFACE PLATING:A*u")

SEE ORDERING INFORMATION

2.ELECTRIC:

a.CONTACT RESISTANCE: 30 MILLIOHMS MAX

b.INSULATION RESISTANCE: 1000 MEGA OHMS MIN

c.DIELECTNIC VOLTAGE: 500V AC ONE SEC LEVEL

d.OPERATING TEMPERATURE: -40℃~ +80℃

ORDERING INFORMATION

BS-12-B*004**

- BS-12: 电池座系列 / BS-12系列
- B: SMT 180° TYPE
- MATERIAL:
  - 1A-PBT BLACK
  - 1B-PA66 BLACK
  - 2A-PPA BROWN
  - 2B-PPA BLACK
  - 3A-PPS BROWN
  - 3B-PPS BLACK
  - 4A-LCP WHITE
  - 4B-LCP BLACK
- PLATING:
  - A-Au1U"
  - J-Ni100U"~120U"
  - K-SN100U"~120U"

NO.	PART NAME	Q'TY	MATERIAL	PLATING & COLOR
3	TERMINAL(-)	1	PHOSPHOR BRONZE, T=0.20MM	Gold Plating and Ni Under-Plating
2	TERMINAL(+)	1	PHOSPHOR BRONZE, T=0.20MM	Gold Plating and Ni Under-Plating
1	HOUSING	1	PPS	BROWN

UNLESS OTHERWISE SPECIFIED TOLERANCES

DECIMALS: X :±0.30, X.X :±0.25, X.XX :±0.20, X.XXX :±0.10

ANGLES: X :±1°, X.X :±0.5°

WEIGHT: 0.6 g

SHEET 1 OF 1

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SCALE: 1:1	SIZE: A4	VIEW:	PART NO: BS-12-B3AA004
UNIT: mm	REV.: A/0	OBJECT: QJ	

DSND	QJ.LIUSU	DATE	2020.10.17
CHKD	QJ.HUAN	DATE	2020.10.18
APVD	QJ.QILIU	DATE	2020.10.18

TITLE: QJ1220-2SMT