PRETEK

APPROVAL SHEET

CUSTOMER NAME :

ITME : 3PIN 沉板式电池连接器

MODEL : PBC-2.5-3C-S

MATERIEL NO :

DATE : 15/03/2007

APPROVED BY:

深圳市普瑞泰电子有限公司

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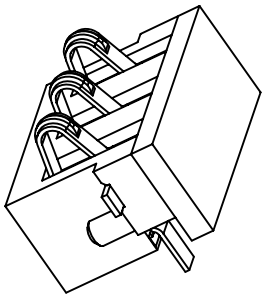
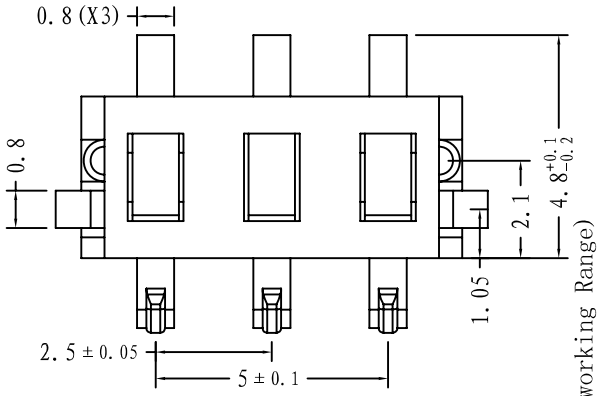
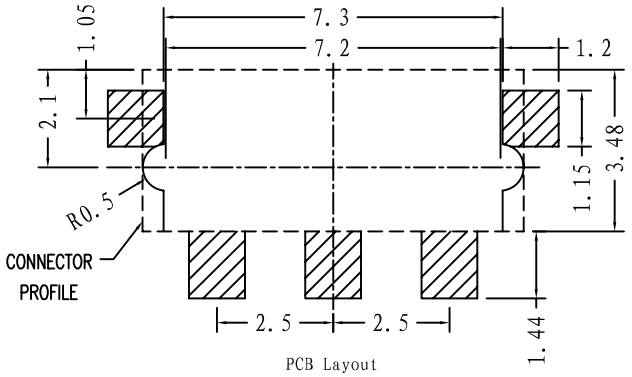
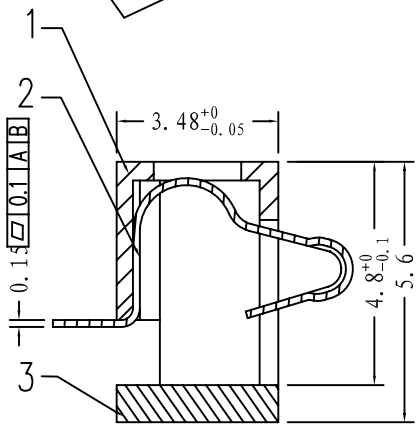
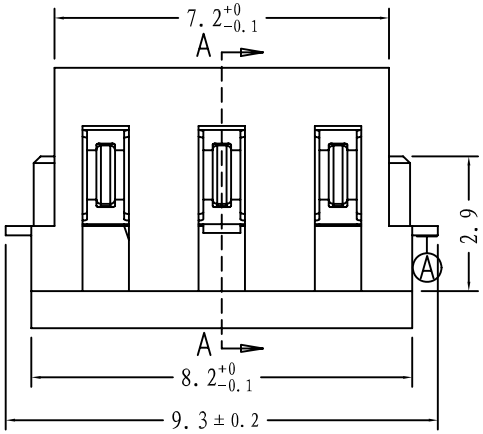
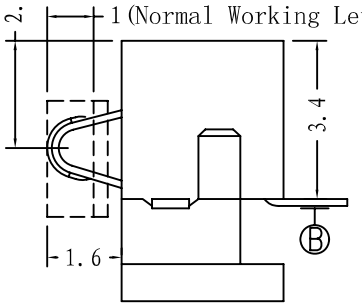


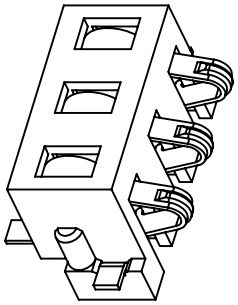


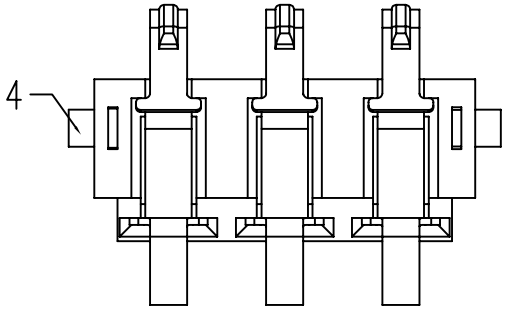












NOTES:

1. Operation Voltage 2A/Pin
2. Operation current 250Vac/DC
3. temperature -55--+125℃;
4. the press force on contact point
   press distance is 1.0mm min, 1.5mm max
5. press distance is 1.0mm the press forceis1+/-0.1N
6. contact point mechnical operation is 6000 cycles
7. material:
   housing black LCP GF30%, contact: (Be-Cu) thickness 0.15,
   holder C5210R-H/2 thickness0.2; Pick plate black lcp
8. plating:
   contact underplated Ni 1.27-2.54um contact area Au
   not less than 0.38um others plated Au not less than 0.03um
   holder: underplated Ni 1.27-2.54um pure tin plated 2.54- 5.08μm over
9. connector and PCB soldering free from lead
10. A and B coplanarity is 0.1mm。

PBC- 2.5 -3C -S

- PBC- : Battery connector
- 2.5 : Pitch header
- 3C : Position
- -S : agnomen

DIM	TOL	DIM	TOL
x.		x.	±2°
.x	±0.10	.x	±1°
.xx	±0.05	.xx	±1°
.xxx	±0.03	.xxx	±1°

PRETEK

深圳市普瑞泰电子有限公司

FILE NO.		DATE	
DRAW NO.			
DESIGN:			
CHECK:			
REV.	V0.0	APPROVAL:	

TITLE: Battery connector
P/N: PBC-2.5-3C-S
SHEET: 1/1
SCALE: 1:1 UNIT: mm

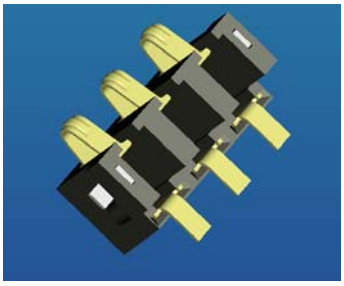
规　格　书

系列类型	BATTERY CONNECTOR	编写 WRTN BY:	审核 CHECKED BY	批准 APPROVED BY
型号	BC-2.5-3C-S	Wei　Ming	Zhang　BO	Wang　Wei
VERSION 版本:	V0.1			
DATE 日期:	2007.08.26	2007.08.25	2007.08.25	2007.08.26

1. SCOPE　适用范围

This specification covers the requirements for:“BATTERY CONNECTOR”

本规格书适用:“BATTERY CONNECTOR”系列



2. Rating　额定值:　DC 250V　2A

3. CONSTRUCTION　构造

3.1 Shape and dimensions are subject to drawing.

形状.尺寸根据图面确定.

3.2 All part not allowed to exist rust 、 crack and poor planting.

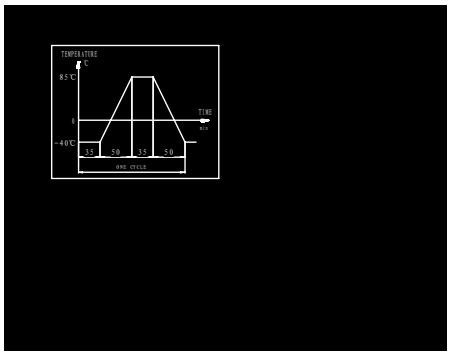
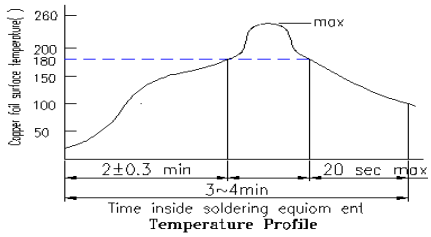
各部分无生锈、裂痕、电镀不良现象.

4. Standard test conditions shall be 5 to 35℃ in temperature and 45 TO 85% in humidity.

温度 5～35℃ , 湿度 45～85% 标准状态下测试。

5. Electronical performance 电气性能

Item 项目		Test condiction 测试条件	Performance 规格
5.1	Contact resistance 接触阻抗	Being measured at 1 KHz small current contact resistance meter. 在 1kHz 小电流下测量。	30mΩ max. 30 毫欧 以下。
5.2	Insulation resistance 绝缘阻抗	Measurements shall be made following application of DC 500 V potential across terminals and across terminals and frame for 1 minute. 在端子之间和端子与壳之间加 DC 500 V 条件下,持续 1 分钟测量。	1000MΩ min. 1000 兆欧 以上。
5.3	Withstand voltage 耐电压	AC 1000 V(50Hz or 60 Hz)shall be applied across terminals and acoss teminals and frame for one minute. 在端子之间和端子与壳之间加 AC 1000 V (50Hz 或 60Hz)条件下,持续 1 分钟测量。	There shall be no breakdown 无击穿现象出现.
6. Mechanical performance 机械性能			
6.1	Contact force 接触压力	Positive direction pressure press down at 0.8mm, the force is 80g/Pin min 用工具压簧片(单片)0.8mm,测量压力。	contact force: ≥80g/pin
6.2	Range 使用温度范围	Operation temperature 在-55～+125℃温度内使用	
7. Durability 耐久性			
7.1	Lift test 寿命试验	6,000 cycles of operation at a rate of 10-20 cycles per minute with unloading 在无负载条件下,以每分钟 10－20 次的速度操作 6,000 次。	(1) Contact resistance 接触阻抗 100mΩ max.100 毫欧 以下 (2) 其它满足机械,电气性能.
7.2	Heat test 耐热试验	85±3℃ for 96 hours, test after keeping in normal condition for 60 minutes. 在 85±3℃环境中放 96 小时，再放在正常环境中，60 分钟后进行测试。	Insulation resistance 100MΩ min. 100 兆欧以上, 其它满足机械,电气性能.

7.3	Humidity test 耐湿试验	40±3℃ 90-95%RH for 96 hours, test after keeping in normal condition for 60 min. 在 40±3℃ 90－95％RH 环境中放 96 小时，再放在正常环境中，60 分钟后进行测试。	Insulation resistance 100MΩ min. 100 兆欧以上，其它满足机械,电气性能.
7.4	Cold test 耐冷试验	At -40±3℃ for 96 hours, test after keeping in normal condition for 30 min. 在－40±3℃环境中放 96 小时，再放在正常环境中，30 分钟后进行测试。	There shall be no sign of damage mechanicly and electrically 无任何迹象显示机械及电气性能损坏。
7.5	Temperature cycling test 温度交变试验	In FIG. For 5 cycles, test after keeping in normal condition for 60 min. 如图示之环境中，循环 5 次后，再置于正常环境中，60 分钟后进行测试。 	Insulation resistance 100MΩ min. 100 兆欧以上，其它满足机械,电气性能.
7.6	Soldering test 可焊性试验	The sort of dip solder terminal：The foot of the spring shall be dipped 2mm in the solder bath at a temperature of 230±5℃ for 3±0.5 sec. 将簧片焊脚部浸入焊锡池 2mm 深，温度 230±5℃ 时间 3±0.5 秒。	A new uniform coating of solder shall cover a minimum of 95% of the surface being immersed. 浸入部分 95％以上表面被锡覆盖。
7.7	Resistance to soldering heat test 耐焊性试验	Reflow Soldering Conditions: Preheat:Temperature on the copper foil surface should reach 180℃.2±0.3minutes after the P.W.B entered into the soldering equioment. Soldering heat:Temperature on the copper foil surface should reach the peak temperature of 260℃ with in 5 seconds after the P.W.B enter into soldering heat zone. 过回流焊条件：  Temperature Profile 预热:电镀层表面的温度应达到 180℃,2±0.3 分钟，后电路板进入回流焊设备. 回流焊温度:电镀层表面温度最高为 260℃且停留不超过 5 秒后电路板进入低温焊接处.	Without deformation of case or excessive looseness of terminals electrical characteristics shall be satisfied. 本体无变形， 能满足于机械、电气性能。
8.	Others	When the amendment of this specification comes into necessity, the amendment must be made by the nutual consolation and agreement between manufacturer and customer. 当规格书需要修正时，需客户同厂方共同确认	