

深圳市拓通达电子有限公司

原材料承认书

SPECIFICATION FOR APPROVAL

客户名称/customer name	
产品型号/ Model	TDT-3570-2S NCM
产品规格/ Specification	L35*W7*T2.2mm MAX
主要器件 Main configuration	IC: 2120NB/SOT23-6 MOS: 8205/TSSOP-8
PCB工艺/PCB	Double layer, Green oil, Solder coating, ROHS
Document NO.	
版本/ Rev	00

部门 Department	编写(R&D) Registered	审核 (R&D) Checked	复核 (Quality) Deliberation	批准(R&D) Approved
签名/Sign				
日期/DATE				

客户确认 Customer Approve			
部门 Department	R&D	Quality	Approved
签名/Sign			
日期/DATE			
文件有效期限 Approved date	有限期限为 1 年 Period of validity 1 year		

在文件到期前一个月如果双方都对此文件都没有异议，此文件将自动延续有效期1年

If both sides have no dissidence in one month before the maturity of the Approved. It will be considered valid automatically for a one year period.

公司名称 The name of company	深圳市拓达通电子有限公司 SHENZHEN TUODATONG ELECTRONICS CO., LTD	电话 TEL	15013560873
公司地址 Address	深圳市光明区白花社区白花洞博林泰科技园7楼 7/F, Bo Lin Tai Technology Park, Baihuadong, Guangming District, Shenzhen, Guangdong Province, China.		

1. 产品变更履历/Product Modified Record List

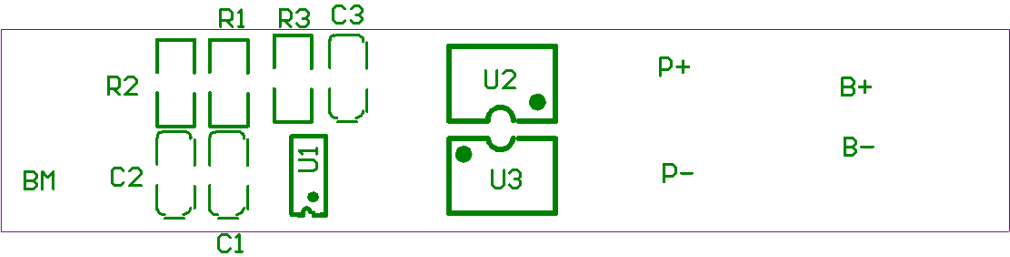
产品变更履历/ Product Modified Record List			
日期/ Date	变更点描述/ Problem and Solution	责任人/ Principal	
2018.6.4	1. 新开发		

2. 产品规格/ Produce Specification

		技术规范 TECHNICAL SPECIFICATION FOR APPROVAL	Rev	0.1
			Date	
			Page	1
No	Item	Condition	Specification	
1	输入电压/input Voltage	B+/B-间输入电压/input Voltage B+ to B-	-0.3~+10V	
2	过充电 Overcharge	保护电压/Detection voltage/1CELL	4.28±0.05V	
3		恢复电压/ Release voltage/1CELL	4.08±0.1V	
4		保护延迟时间/ Detection delay time	0.8~1.2S	
5	过放电 Over discharge	保护电压/Detection voltage	2.8±0.1V	
6		恢复电压/ Release voltage	3.0±0.1V	
7		保护延迟时间/ Detection delay time	80.00~160.00ms	
8	放电过流 Over discharge current	放电过流保护电流/Over current	6~15A	
9		放电过流保护延时/delay time	7.00~20.00ms	
10	短路保护 Short detection	短路保护延时/ Short detection delay time	100~350us	
11		恢复条件/Release Conditions	断开负载/Cut off load	
12	充电温度保护 Charge temperature protection	充电时的温度保护阈值/ Charge temperature protection	70-75℃	
13	放电温度保护 Discharge temperature protection	放电时的温度保护阈值/ Discharge temperature protection	70-75℃	
14	自耗电 Normal current consumption	工作状态自耗电 Normal current consumption of PCM	Max 16.00uA	
15	OV 充电/OV charger	是否允许 OV 充电/allowed OV change	YES	
16	建议工作条件 Suggest working conditions	建议最大持续充/放电电流 max continuous charge/discharge current	4A	
17		建议工作温度/suggest working temperature	-20℃~+60℃	
18	内阻/IR resistance	PCM 内阻/ IR of PCM	≤70.00 mΩ	
19	NTC阻值	NTC 阻值(20~40)℃	10K	
20	PCM 尺寸 The size of final PCM	长度/The length of final PCM	35±0.15mm	
21		宽度/The width of final PCM	7±0.1mm	
22		厚度/ The thickness of final PCM	MAX:2.2mm	

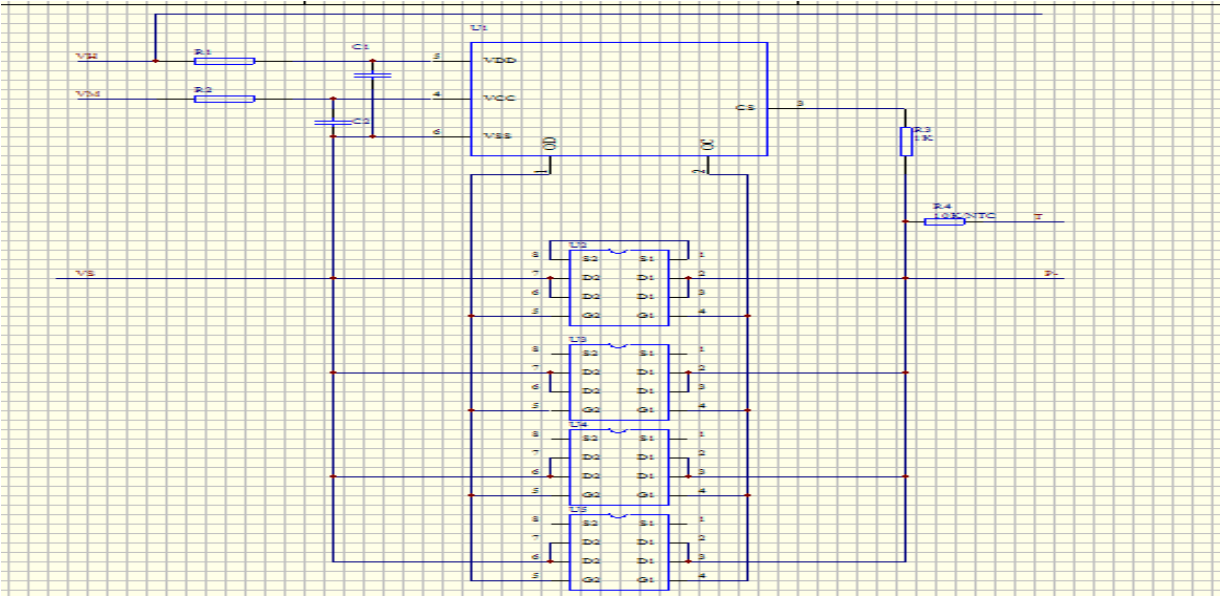
21	外观 Appearance	1) 没有元器件的破损/Nothing part deflection 2) 所有焊点良好/The status of solder is all right 3) PCM 没有翘曲/ PCM will not crook 4) 符合拓通达的出货外观标准 Settle for TDT Module appearance standard
22	可靠性测试 Reliability test	1) ESD 测试: 接触 4KV 空气 8KV / ESD test : contact 4KV Air 8KV

3. Part List

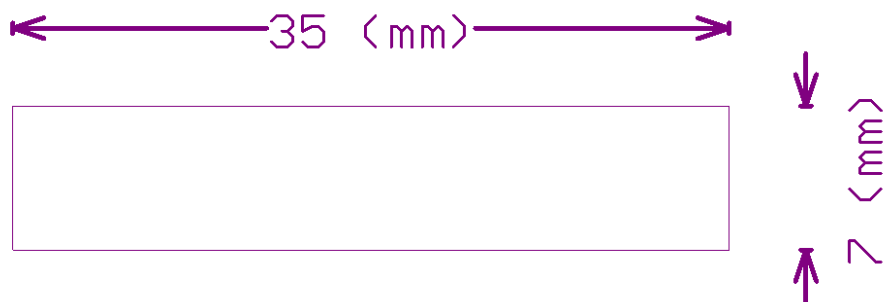
贴片图/SMT drawing	
	

4. 图纸/Drawing

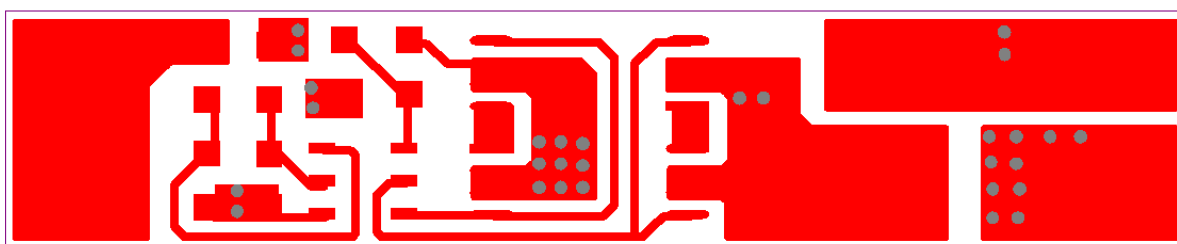
4.1 电气原理图/Circuit Drawing



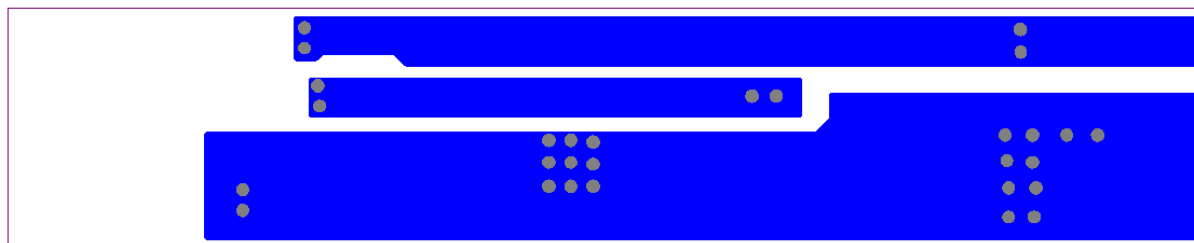
4.2 尺寸图/PCB size



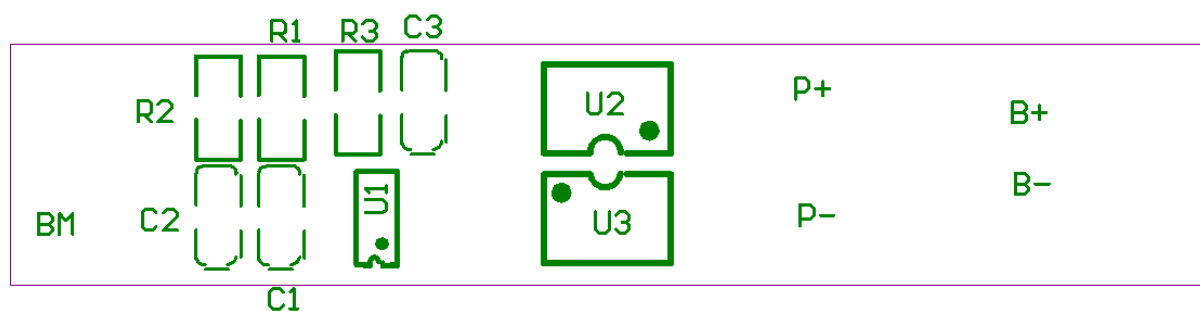
4.3 顶层线路图/Top Layer



4.4 底层线路图/Bottom Layer



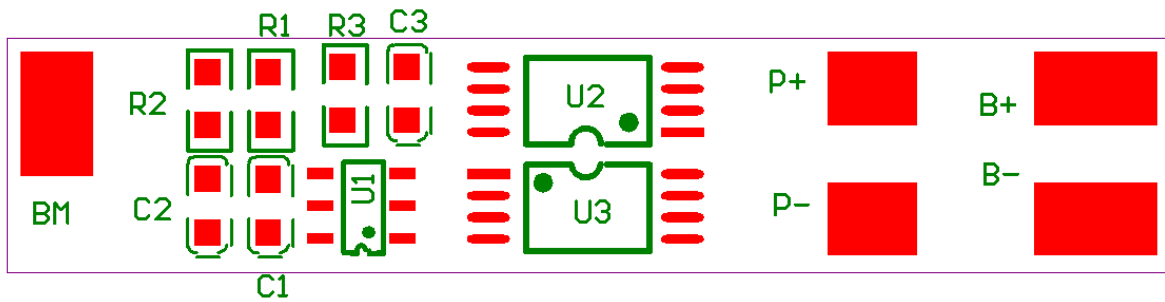
4.5 顶层丝印图/Top Overlay



4.6 底层丝印图/Bottom Overlay

TDT-3570-2S

接线说明 Wiring instructions:



B- connect battery's B- 0V
BM connect battery cell's B1+ 3.7V
B+ connect battery's B2+ 7.4V

P+ connect load+ /charger+
P- connect load- / charger-