深圳市首韩科技有限公司
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承 认 书

SPECIFICATION FOR APPROVAL

客 户 Customer：

产品名称 Project： 针座

规格型号 Part No： 1.25mm WT(卧贴WD) 位数通用

贵公司承认印 Approal signatures

料 号/Part No.	签 章/Signatures

日期 Date:

拟制/Drawn	李春风	
审核/Check	张栋	
批准/Approved	罗孝金	

产品规格书 PRODUCT SPECIFICATION

1. SCOPE［适用范围］

This specification covers the A1251 product series。

［本规范适用于 A1251 系列产品。］

2. Part name & part number［部件名称&部件编号］

Part name［部件名称］	Part number［部件编号］
Housing	A1251Y
Terminal	A1251T
Wafer (DIP)	A1251A、A1251AW
Wafer (SMT)	A1251AWV、A1251AWR

3. RATINGS［标准额定值］

Item［项目］	Standard［规格］	
Rated voltage［额定电压］	125 V	AC/DC
Rated current［额定电流］	1.0 A	
Operating temperature［使用温度范围］	-40℃ ～ +85℃	

4. TEST CONDITION［试验条件］

The test and measurement, unless otherwise specified, shall be carryout at a temperature of 15 to 35℃ , Relative humidity of 25 to 85% , and atmospheric pressure of 86 to 106kPa.However, when any doubt arises on the judgment value under it , the test and measurement shall be carryout at a temperature of 20±2℃ , relative humidity of 60 to 70% , and atmospheric pressure of 86 to 106kPa.［除非特别说明之外，一般试验及测量将于温度 15～35℃，相对湿度 25～85%，大气压力 86 ～106kPa 之条件下完成，但若于上述条件下有任何影响判定值的疑虑，可考虑在温度 20±2℃，相对湿度 60～70%及大气压力 86～106kPa 之条件下完成试验。］

5. Appearance［外观］

By looking, there shall not be any abnormality such as deformity, exfoliation of plating,etc., which can reduce performance. No defect such as cracks scratches or blemishes.［经目视观察，外观不可有变形，电镀脱落等会降低其功能的异常现象，也不可有严重破裂、刮伤或污损之缺点。］

产品规格书 PRODUCT SPECIFICATION

6. ELECTRICAL EFFICIENCY［电气特性］

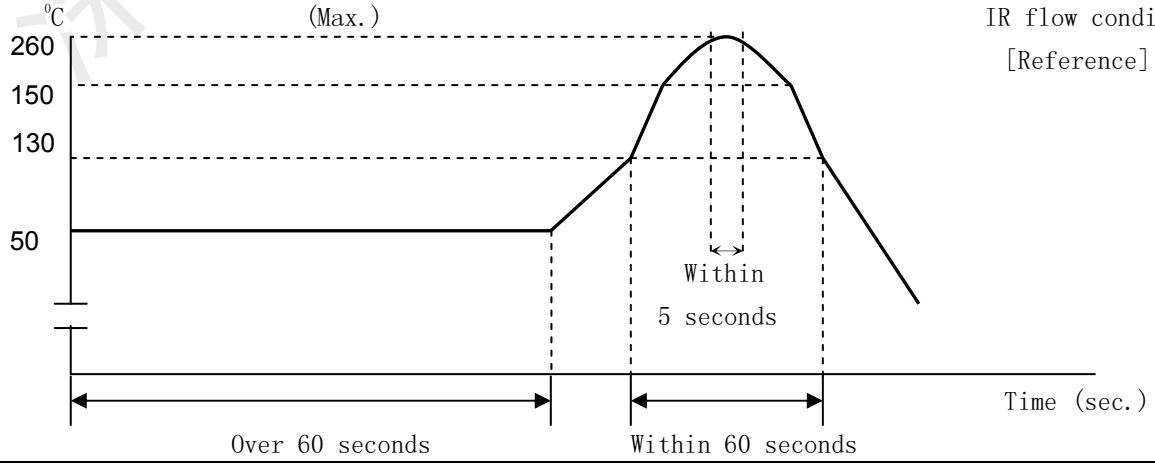
No.［编号］	Item［项目］	Test Method ［试验方法］	Requirement［性能要求］
6.1	Contact Resistance ［接触电阻］	Mate connectors, load voltage: 6±1V DC 1A, the measured value should detract the leader Eresistance value［测量时将连接器插合,测量负载电压:6±1V DC 1A,测量时减去导线电阻值］	55mΩ Max.
6.2	Insulation Resistance ［绝缘电阻］	Mate connectors, apply 500V DC between adjacent terminal or ground.［在插合连接器相邻接触件之间施加 500V DC 电压进行测试］	100MΩ Min.
6.3	Withstanding Voltage ［耐电压］	Mate connectors, apply 250V AC for 1 minute Between adjacent terminal or ground.［在各相邻接触件间施加 250V AC 之电压持续 1 分钟］	No damage ［不可破坏］

7. ENVIRONMENTAL EFFICIENCY［环境特性］

No.［编号］	Item［项目］	Test Method ［试验方法］	Requirement［性能要求］	
7.1	Heat Resistance ［耐热试验］	Mated connector shallbe placed in an environmental for 96hours at +85±2℃. ［将插合的连接器放在温度为+85±2℃的环境中 96 小时］	Appearance ［外观］	No damage ［不可破坏］
			Contact Resistance ［接触阻抗］	30mΩ Max.
7.2	Cold Resistance ［耐冷试验］	mated connector shall be placed in an environmental for 48 hours at -25±3℃ ［将插合的连接器放在温度为-25±3℃的环境中 48 小时］	Appearance ［外观］	No damage ［不可破坏］
			Contact Resistance ［接触阻抗］	30mΩ Max.
7.3	Humidity ［耐湿性试验］	Mate connectors,40 ± 2 ℃ in temperature and 90～95%RH in an environmental for 96 hours. After testing connector shall be left alonefor 1 to 2 hours in a room ambient. ［将插合的连接器,温度 40±2℃，相对湿度 90～96%的环境中，持续 96 小时。经试验后，连接器须于室温中放置 1～2 小时，再测定其值。］	Appearance ［外观］	No damage ［不可破坏］
			Insulation Resistance ［绝缘电阻］	50MΩ Max.
			Withstanding Voltage ［耐电压］	200V AC/minute MIN

产品规格书 PRODUCT SPECIFICATION

7.4	Temperature Cycling [温度循环]	low temperature: -25±3℃ high temperature:+85±3℃ After 5 cycles at the normal environment for testing after 2 hours [低温: -25±3℃] [高温:+85±3℃] [5 次循环后放置在正常环境中恢复 2 小时后进行测试]	Appearance [外观]	No damage [不可破坏]
			Contact Resistance [接触阻抗]	30mΩ Max.
7.5	Salt spray [盐雾试验]	Salt concentration: 5%/Temperature: 35±2℃ Testing time: 24 ± 2 hours, After salt is removed by running water and a drop is removed, it is measured. [盐水比重：5% / 温度：35±2℃] [试验时间：24±2 小时，试验结束后用清水将残留盐份清洗并将水滴清除后，才可测量。]	Appearance [外观]	No damage [不可破坏]
			Contact Resistance [接触阻抗]	30mΩ Max.
7.6	Solderability [可焊性试验]	Soldering time: 2.5±0.5 S Solder Temperature: 260±5℃ [焊锡时间：2.5±0.5 秒] [焊锡温度：260±5℃]	95% min. of solder area [焊锡面积≥95%]	
7.7	Resistance to soldering heat[耐焊性]	Place the connector on the P.C.Board, then immerse the solder pin up to the surface of the board in the solder bath at 260℃±5℃ for 5±1S . [将连接器置于 PCB 板上，然后将露出 PCB 板表面的 Pin 脚部分浸入 260℃±5℃的锡炉中 5±1 秒。]	Without deformation of ease or excessive lossen. [塑胶不得有明显的变形或损坏]	



IR flow condition
[Reference]

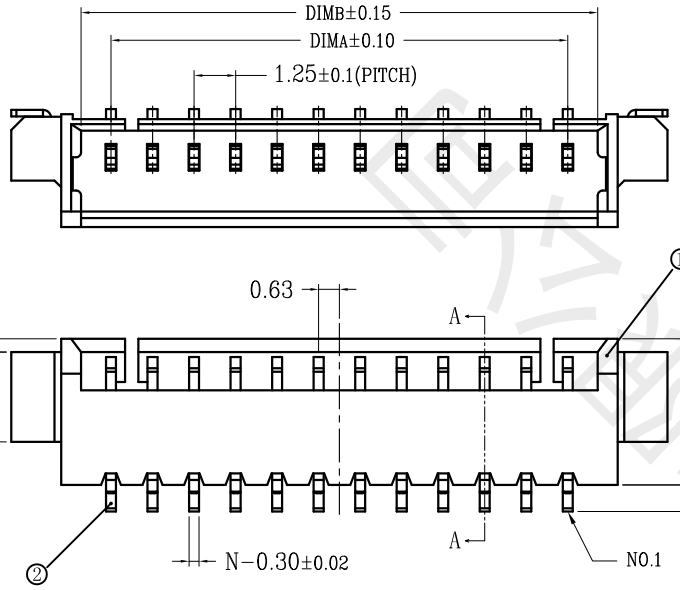
8. MECHANICAL EFFICIENCY [机械特性]

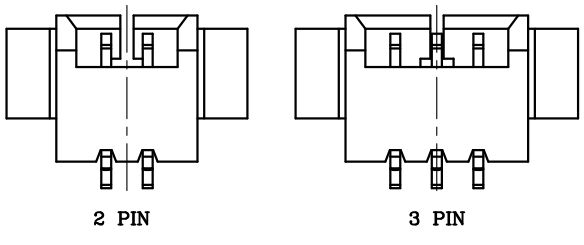
<table>
<tr><th>No.[编号]</th><th>Item[项目]</th><th>Test Method [试验方法]</th><th colspan="2">Requirement[性能要求]</th></tr>
<tr><td>8.1</td><td>Pin retention force
[PIN 针固定力]</td><td>Fixed the wafer of the connector , then apply thrust at a speed ≤10N/S push force the single contact of the connector; push the contact out of the wafer. [固定连接器基座,在连接器单一接触件轴线方向上施加推力,施力速率≤10N/S,将接触件从基座中推出]</td><td colspan="2">7N Min.
Only per PIN
[单一 PIN 针]</td></tr>
<tr><td>8.2</td><td>Terminal retention Force
[端子保持力]</td><td>Fix the dynamometer 150mm away from the wire of the connection, then apply axial pull out force at a speed≤10N/S on the terminal assembled in the housing. [将测力计固定在距离连接导线 150mm 处,在连接器轴线方向施加拉力. 施力速率≤10N/S,将端子从孔座中拉出]</td><td colspan="2">7N Min.
Only per terminal
[单一端子]</td></tr>
<tr><td>8.3</td><td>Mechanical Life
[机械寿命]</td><td>Connectors shall be subjected to 50 cycle of Insertion and Withdrawal.
(Speed:100mm/minute)
1、[连接器必须承受 50 次的插拔循环]
2、[测试速度：100mm/分种]</td><td>Contact Resistance
[接触阻抗]</td><td>30mΩ Max.</td></tr>
<tr><td>8.4</td><td>Insertion force(I.F.) & withdrawal force(W.F.)
[插入力 & 拔出力]</td><td colspan="3">(1) Test method[试验方法]：Housing with crimped terminal and wafer shall be mated and unmated on the same axis. For the measurement of single circuit , housing lock shall be removed.(Speed:20±5mm/minute)[将孔座和端子配合好,与针座在同一轴线上进行插拔测试,测试时须将孔座锁扣去掉(测试速度：20±5 mm/minute)]
(2) Requirement[性能要求]：(UNITS: N)</td></tr>
</table>

Number of circuits	At initial		Number of circuits	At initial	
	I.F.(max)	W.F.(min)		I.F.(max)	W.F.(min)
single	3.00	0.60	9	37.00	8.20
2	16.00	4.00	10	40.00	8.80
3	19.00	4.60	11	43.00	9.40
4	22.00	5.20	12	46.00	10.00
5	25.00	5.80	13	49.00	10.60
6	28.00	6.40	14	52.00	11.20
7	31.00	7.00	15	55.00	11.80
8	34.00	7.60	16	58.00	12.60

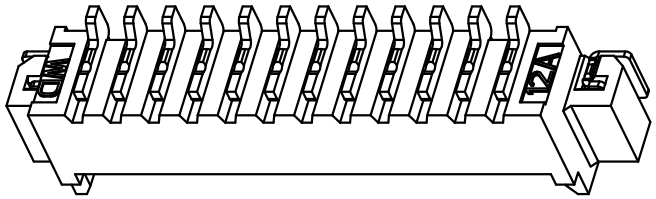
版次	变更摘要	日期
0	新产品发行	2015/01/28

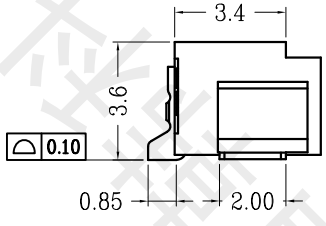
序号	品名	材质
①	1.25 A型卧式WTB胶芯	LCP UL94V-0 本色
②	1.25 A型卧式WTB端子	磷青铜/表面镀锡
③	1.25 A型卧式WTB焊片	黄铜/表面镀锡

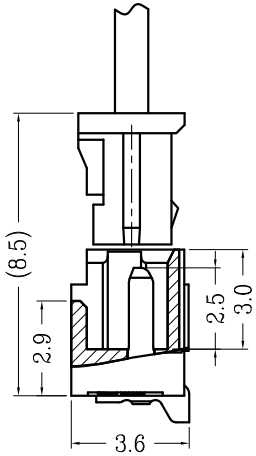




LOCK CONFIGURATION (锁扣位置)







SECTION A-A

CKT	DIM A	DIM B	DIM C	DIM D
2	1.25	3.05	7.25	7.25
3	2.50	4.30	8.50	8.50
4	3.75	5.55	9.75	9.75
5	5.00	6.80	11.00	11.00
6	6.25	8.05	12.25	12.25
7	7.50	9.30	13.50	13.50
8	8.75	10.55	14.75	14.75
9	10.00	11.80	16.00	16.00
10	11.25	13.05	17.25	17.25
11	12.50	14.30	18.50	18.50
12	13.75	15.55	19.75	19.75
13	15.00	16.80	21.00	21.00
14	16.25	18.05	22.25	22.25
15	17.50	19.30	23.50	23.50
16	18.75	20.55	24.75	24.75
17	20.00	21.80	26.00	26.00
18	21.25	23.05	27.25	27.25
19	22.50	24.30	28.50	28.50
20	23.75	25.55	29.75	29.75

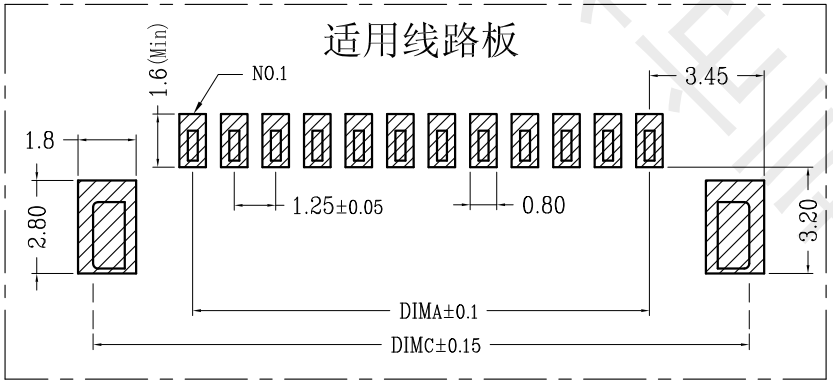
技术指标:

1. 塑件表面应光洁、无毛边、无明显收缩、缺陷、裂纹等现象.
2. 锁扣窗口：2～3PIN为1个，≥4PIN为2个.
3. 温度范围：-40° C～85° C.
4. 额定电压：125V，AC.
5. 接触电阻：≤55mΩ(Initial) per contact, ≤20mΩ Change allowed.
6. 绝缘电阻:≥100MΩ.
7. 产品料号：

WT125AW—** * *—**

- NO OF CKT(产品PIN数)
- Plating(电镀方式)
  - 0:端子全雾锡
  - 1:端子全金(G/F OVERALL)
  - 4:端子全亮锡
- Packing(包装方式)
  - T:TUBE管装
  - R:TAPE & REEL卷装
- OO 胶芯有LOGO:WD
- OW 胶芯无LOGO

适用线路板



一般公差(TOLERANCE)
X. ±.50 .XX ±.10
.X ±.20 .XXX ±.05
ANGLES ±1°

深圳市首韩科技有限公司

品名 (TITLE)	针座	制图 (DR)	李春风
		校对 (CHKD)	张栋
料号 (DWG.NO)	1.25mm WT(卧贴WD) 位数通用	审核 (APPD)	罗孝金
比例 (SCALE)	1:1	单位 (UNITS)	mm
张数 (SHEET)	1 OF 1	SIZE	A4
REV	A		