



三佐部品【中国】股份有限公司
SAMZO PARTS [CHINA] CO.,LTD

承認書

APPROVE SHEET

客户名称
CUSTOMER : _____

贵司制品名
CUSTOMER PN: _____




本公司制品名
PRODUCT PN: Connector

贵公司规格
APPROVAL DAT: _____

本公司规格
PRODUCT CODE: 1.0T-1-WT(SHD)-2×NA

客户料号
CUSTOMER NO: _____

本公司规格书编号
PRODUCT DRAWING NO: 201706088316

	批准 APPROVAL	审核 CHECK	设计 DESIGN
<input type="radio"/> 新品承认 NEW APPROVE	 DATE: _____	 DATE: _____	 DATE: _____
<input type="radio"/> 规格书变更承认 CHANGE CODE APPROVE AGAIN			
<input type="radio"/> 材料变更承认 CHANGE MATERIAL APPROVE AGAIN			

贵公司承认栏
APPROVAL SIGNATURE

印章

请于____年____月____日前承认返回我司 日期 DATE : _____

PLEASE RETURN TO US AFTER CONFIRMED! THANK YOU!

深圳市三佐部品电子有限公司

Shenzhen City Samzo Parts Electronics Co., Ltd.

电话 : 0769-82625505 电话 : 0769-82625503

邮箱 : sz@samzo.top 网址 : www.kkk-jp.com

地址 : 东莞市塘厦镇振兴围社区东兴大道南56号806-809

世界零部件制造商

- -SAMZO- -



ISO9001 ISO14001

认证企业

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三佐部品【中国】股份有限公司

SAMZO PARTS [CHINA] CO.,LTD

1.0T-1 SERIES

内容：此规格书包含1.0mm间距线接板系列连接器

Scope: This specification covers the 1.0mm spacing WIRE TO BOARD connector series.

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FILE NO	ENS008	APPROVAL	CHECK	DRAWING
ECR/N B	New spec			

[1.产品名称及料号/ Product name and part number]

Product Name	Part Number
Terminal/压接式端子	1.0T-1-T
Housing/胶壳	1.0T-1(SH)-NY/1.0T-1(SH)-NY-L/1.0T-1(SHD)-2×NY
Wafer Assembly ST. (SMT)/针座 直针	1.0T-1-LT(SH)-NA/1.0T-1-LT(SHD)-2×NA
Wafer Assembly R.A (SMT)/针座 弯针	1.0T-1-WT(SH)-NA/1.0T-1-WT(SHD)-2xNA

[2. 额定电压电流及适用线规/Ratings and applicable wires]

ITEM	STANDARD
Rated Voltage/额定电压	50V DC/AC(rms)
Rated Current/额定电流	1A
Applicable wires/适用线规	AWG. #32~#28
Insulation O.D/线的绝缘外径	Ø0.40~Ø0.80mm(max.)
Ambient Temperature/适用温度范围	-25°C~+85°C *

* : Including terminal temperature rise.

[3.特性/ Performance]

3-1. 电气特性/Electrical Performance

ITEM/项目		Test condition/测试条件	Requirement/要求
3-1-1	Contact resistance 接触阻抗	Mate connectors, measure by dry circuit, 20mV MAX., 10mA. Mated Length : 50mm (AWG. #28) (Based upon JIS C5402 5.4) 将组装好的连接器配对, 测试长度50mm, 使用#28线。然后加载最大20mV电压, 开路最大10mA电流进行测试。	20mΩ (max.)
3-1-2	Insulation resistance 绝缘阻抗	Mate connectors, apply 500V DC between adjacent terminals or ground. (Based upon JIS C5402 5.2/MIL-STD-202 method 302 Cond.B) 将组装好的连接器配对, 然后在相邻的两端子或端子与塑胶之间加500V DC测试。	100MΩ (min.)
3-1-3	Dielectric strength 耐压测试	Mate connectors, apply 500V AC for 1 minute between adjacent terminal or ground. (Based upon JIS C5402 5.1/MIL-STD-202 Method 301)将组装好的连接器配对, 然后在相邻的两端子或端子与塑胶之间加500V AC, 持续1分钟。	No breakdown and flashover
3-1-4	Contact resistance on crimped portion 铆接处接触阻抗	Crimp the maximum applicable wire on to the terminal, measure by dry circuit, 20mV MAX., 10mA. Wire Length : 50mm (AWG. #28) 铆最大线, 测试长度50mm, 然后加载最大20mV电压, 开路最大10mA电流进行测试。	10mΩ (max.)

3-2. Mechanical Performance

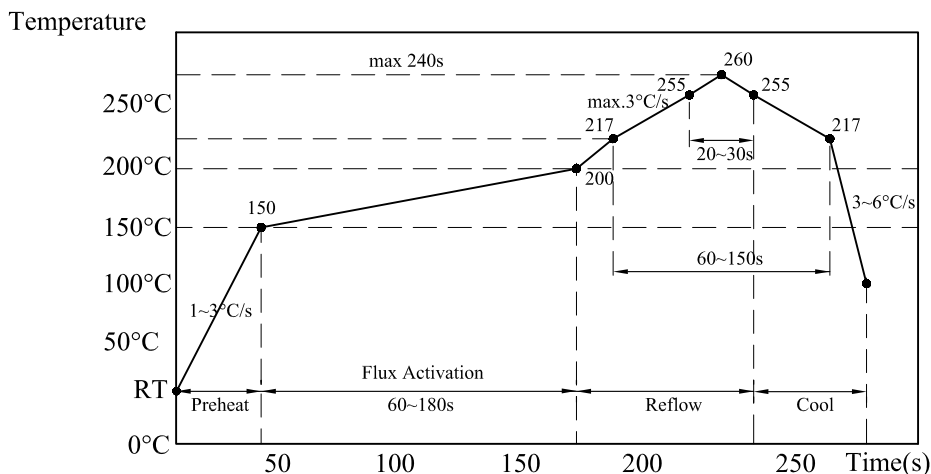
ITEM/项目		Test condition/测试条件	Requirement/要求
3-2-1	Insertion force and withdrawal force 整组插拔力	Insert and withdraw connectors at a speed of 25±3mm/minute. 连接器插入拔出适配的针座, 测试插拔力。速度25±3mm/分钟。	Refer to paragraph 5 参照第4, 5页

3-2-2	Crimping pull out force 铆线强度	Fix the crimped terminal, apply axial pull out force on the wire at a speed of 25±3mm/minute (Based upon JIS C5402 6.22) 将铆线端子固定，对线施加拉力，测试将线拉出铆线端子的力。	Wire size	#28	#30	#32
			1	width	0.7±0.1	
	height	0.58 ~0.62	0.55 ~0.60	0.45 ~0.58		
2	width	0.70				
	height	1.10	1.00	0.90		
	Crimp strength	1.5kgf min	0.8kgf min	0.5kgf min		
			1: CONDUCTOR(mm)/导体			
3-2-3	Terminal insertion force 端子插入力	Insert the crimped terminal into the housing at a speed of 25±3mm/min. 以25±3mm/分钟的速度将压接式端子插入胶壳，测试插入力。	2: INSULATION(mm)/绝缘体			0.5kgf (max.)
3-2-4	Terminal/Housing retention force 端子与胶壳保持力	Apply axial pull out force at a speed of 25±3mm/minute on the terminal assembled In the housing. 以25±3mm/分钟的速度将压接式端子从胶壳中拉出，测试拉力。				0.5kgf (max.)
3-2-5	Pin retention force 单PIN保持力	Apply axial push force at a speed of 25±3mm/minute on the contact pin assembled in the base wafer. 以25±3mm/分钟的速度将PIN从针座中推出，测试推力。				0.5kgf (max.)

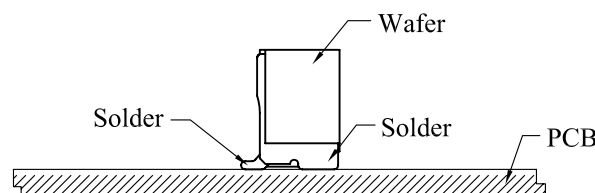
3-3. Environmental Performance and Others

ITEM		Test condition	Requirement	
3-3-1	Repeated insertion/withdrawal 整组插拔后接触阻抗	Mate connector up to 30 cycles repeatedly at a rate of 10 cycles/ minute. After which test the contact resistance 整组插拔30次后，测试接触阻抗。	Contact resistance 接触阻抗	40mΩ (max.)
3-3-2	Temperature rise 温升测试	Apply rated current load on mated connector in series-connection. Measure change of temperature on contact using thermocouples for 4 hours. (Based upon UL 1977) 加载额定电流测试温升。		30°C (max.)
3-3-3	Vibration 震动测试	Amplitude/调幅: 1.52mm P.P Sweep time/频率: 10-55-10Hz/minute Duration: 2 hours in each X、Y、Z axlals. (Based upon MIL-STD-202 method 201A) 三方向震动时间	Appearance 外观	No Damage 无损
			Contact Resistance 接触阻抗	40mΩ (max.)
			Discontinui-ty 不连续性	1μ sec (max.)
3-3-4	Shock 冲击测试	50G, 3 strokes in each X、Y、Z. axlals. (Based upon JIS C0041) 施加50G力，X、Y、Z三方向分别冲击3次。	Appearance 外观	No Damage 无损
			Contact Resistance 接触阻抗	40mΩ (max.)
			Discontinui-ty 不连续性	1μ sec (max.)
3-3-5	Heat resistance 高温测试	Mated connector shall be placed in an oven for 96±4 hours at +85±2°C. (Based upon JIS C5402 7.8) +85±2° C温度下放置96±4小时。	Appearance 外观	No Damage 无损
			Contact Resistance 接触阻抗	40mΩ (max.)
3-3-6	Cold resistance 低温测试	Mated connector shall be placed in a temperature chamber for 96±4 hours at -25±3°C (Based upon JIS C5402 7.9) -25±3° C温度下放置96±4小时	Appearance 外观	No Damage 无损
			Contact Resistance 接触阻抗	40mΩ (max.)

3-3-7	Humidity 恒温恒湿	Mated connector shall be placed in a humidity chamber on the following conditions. Temperature: 40±2°C Relative humidity: 90~95% Duration : 240 Hours (Based upon MIL-STD-202 Method 103 Cond.A) 温度40±2° C, 湿度90~95%条件下放置240小时。	Appearance 外观	No Damage 无损
			Contact Resistance 接触阻抗	40mΩ (max.)
			Dielectric strength 耐压测试	Must meet 3-1-3
			Insulation resistance 绝缘阻抗	10MΩ (min.)
3-3-8	Temperature cycling 温度冲击测试	Mated connector shall be set to temperature cycling for 5 cycles of which 1 cycle consists of: 1>.+25°C ~ 3 minutes 2>.-35°C ~ 30 minutes 3>.+25°C ~ 3 minutes 4>.+85°C ~ 30 minutes (Based upon JIS C5402 7.2) 按设定的温度条件循环5次	Appearance 外观	No Damage 无损
			Contact Resistance 接触阻抗	40mΩ (max.)
			Dielectric strength 耐压测试	Must meet 3-1-3
			Insulation resistance 绝缘阻抗	10MΩ (min.)
3-3-9	Salt spray 盐雾测试	Mated connector shall be placed in a salt spray chamber on the following conditions. Salt Solution Density : 5±1% Temperature : 35±2°C Duration : First punch,second plate:24±4Hours First plate,second punch:8±2Hours Remarks : we make sure the important area 盐水比例5±1%, 温度35±2° C, 先冲后镀: 24H, 先镀后冲: 8H。注: 仅保证重点区域	Appearance 外观	No Damage 无损
			Contact Resistance 接触阻抗	40mΩ (max.)
3-3-10	Solderability 沾锡性测试	Immerse fluxed soldered section of contact pin into a solder bath for 3±0.5sec temperature: 230±5°C 焊锡温度: 230±5° C 焊锡时间3±0.5秒	95% of immersed area must show no voids nor pin holes. 沾锡面积95%, 无虚焊、针孔。	
3-3-11	Resistance to soldering heat 抗焊性测试	Mated connector shall be dipped on solder bath for 5±0.5sec temperature: 260±5°C 焊锡温度260±5° C 焊锡时间: 5±0.5秒	No Damage in appearance 外观没有损坏	



Standard JEDEC Temperature Profile (Lead Free Reflow)



[4. 整组插拔力/Insertion force and withdrawal force]

[UNIT:Kgf]

Circuits	Insertion (max.)	Withdrawal (min.)	
	Initial	Initial	30th
2	2.04	0.20	0.20
3	2.04	0.20	0.20
4	2.04	0.20	0.20
5	3.06	0.30	0.30
6	3.06	0.30	0.30
7	3.06	0.30	0.30
8	4.08	0.40	0.40
9	4.08	0.40	0.40
10	4.08	0.40	0.40
11	5.10	0.50	0.50
12	5.10	0.50	0.50
13	5.10	0.50	0.50
14	6.12	0.60	0.60
15	6.12	0.60	0.60
16	6.12	0.60	0.60
17	7.14	0.70	0.70
18	7.14	0.70	0.70
19	7.14	0.70	0.70
20	8.16	0.80	0.80

[5. 产品规格、尺寸及材质/Product shape, Dimensions and materials]

<REFER TO THE DRAWING> 参照图纸

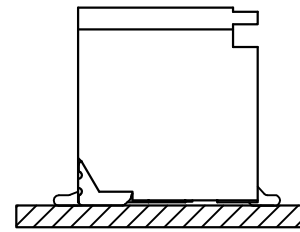
Poles	DIM.A	DIM.B
2 × 6P	5.0	9.1
2 × 10P	9.0	13.1
2 × 15P	14.0	18.1
2 × 20P	19.0	23.1
2 × 25P	24.0	28.1

■ 技术参数 SPECIFICATIONS

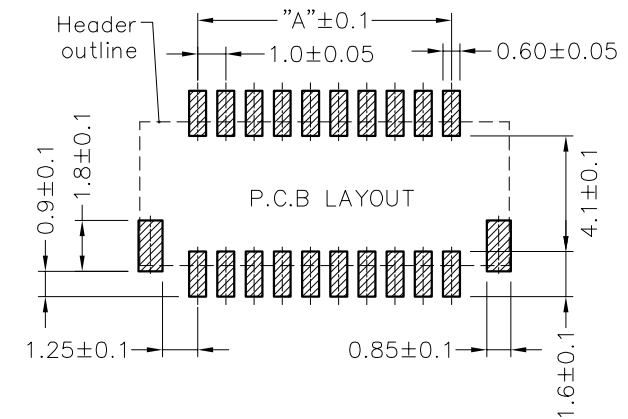
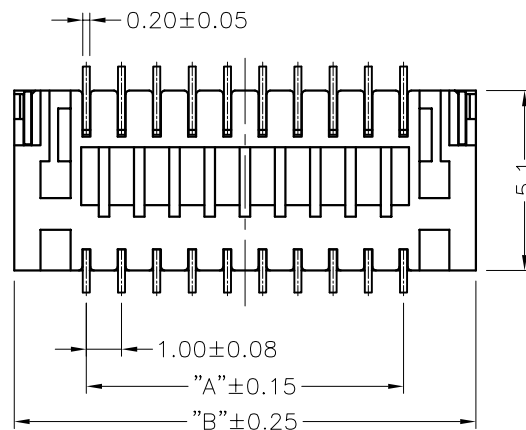
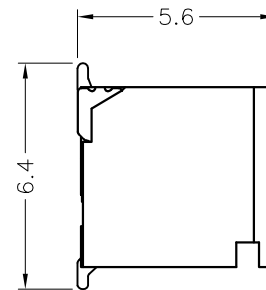
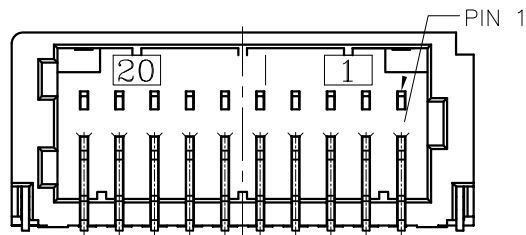
- ◆ 适用线规: AWG.#28~#32
Applicable Wire: AWG.#28~#32
- ◆ 额定电压: 50V DC/AC(rms)
Rated voltage: 50V DC/AC(rms)
- ◆ 额定电流: 1A (AWG.#28)
Rated Current: 1A (AWG.#28)
- ◆ 耐压值: 500V AC/minute
Withstand voltage: 500V AC/min.
- ◆ 工作温度: -25°C ~ +85°C
Working Temp : -25°C ~ +85°C
- ◆ 绝缘电阻: ≥100 MΩ
Insulation resistance: ≥100 MΩ
- ◆ 接触电阻: ≤20 mΩ
Contact resistance: ≤20 mΩ

■ 材料 MATERIAL

- ◆ 绝缘体: 尼龙9T, UL94-V0
Insulator: PA9T, UL94-V0
- ◆ 接触针: 磷铜
Contact PIN: Phosphor bronze
- ◆ 焊片: 黄铜
Solder tab: Brass



Assembly Layout



三佐部品【中国】股份有限公司



GENERAL TOLERANCE	
XX. ±0.40	
X. ±0.30	
.X ±0.25	X.* ± 2°
.XX ±0.15	.X.* ± 1°

SCALE:	5:1
UNIT:	mm
SIZE:	A4

DRAWN:	柴艳妮
CHECK:	于腾
APPROVE:	肖志军

DATE:	2014.3.27
DATE:	2014.3.27
DATE:	2014.3.27

DOC. NO:	JD-Y-E007
PARTS NO:	1.0T-1-WT(SHD)-2×NA

TITLE:	工程图
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REV.	B
SHEET:	1/1