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Product Specification [产品规格书]:	Document No	PS-1002-E-01
Subject [主题]:	Date Issued	2019/06/09
1.00mm Pitch 1002-E Series Connector Specification	Date Revised	2018/05/26
	Version	AO

### 【1.适用范围 Scope】

此种规格包括 1.00mm Pitch 1002-E Series 连接器规格说明.

This Specification Covers the 1.00mm Pitch 1002-E Series Connector Specification.

### 【2.规格与料号 Spec and Part number】

规格内容	产品料号	产品图示
Specification	Production No.	Picture of Product
端子/Terminal	1002T-PXX	
胶壳/Housing	1002H-XXE-N0HF	Commission of the commission
	1002WVS-XXE-XXXX	PPP -
针座/Wafer	1002WRS-XXE-XXXX	TITTE
	1002WVS-1xXX-XXXXXXXX00XX	ITP
	1002WRS-1xXX-XXXXXXXX00XX	

### 【3.材质与表面处理 Disposal of Material and surface】

规格内 Specific		材 质 Materials	表面处理 Disposal of Surface
端子/Terminal		磷铜/Phosphor Bronze	Tin Plated: Over $70\mu^{\prime\prime}~$ .Nickel: Over $30\mu^{\prime\prime}~$ . Gold Plated : Gold Flash
胶壳/Hou	sing	PA66	UL 94V-0
	Base	High Temperature Plastic	UL 94V-0
针座/Wafer	PIN	磷铜/ Phosphor Bronze	Over Tin 70µ" Plated Over 30µ" Nickel Gold Flash or 1u"
	Solder tab	磷铜/ Phosphor Bronze 黄铜/ Brass	Over Tin 70µ" Plated Over 30µ" Nickel Gold Flash or 1u"

(上述参数请以工程图为准/Please Refer to the Project drawing for the above Specification) 【4. 额定等级 Ratings and applicable wires】

项目【Item】	规 格【Standard】		
额定电压 Rated Voltage (Max.)	50V		
额定电流 Rated Current (Max.)	1A	[AC/DC]	
使用温度范围 Ambient temperature Range	<b>-25℃~+85℃</b>		
适用线径 Applicable wire insulation O.D	28 AWG ~32 AWG Insulation O.D. 0.80mm(Max.)		

【\*升温时含端子.Including terminal temperature rise.】

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# 【5.性能 PERFORMANCE】

## 5-1. 电气的性能 Electrical Performance.

	项目	条 件	规格
	[Item]	Test Condition	[Requirement]
5-1-1	接触阻抗 Contact Resistance	公母配合,开放电压 20mV 以下,电流 10mA 检测连接器 A~B 区. Mate connectors, measure by dry circuit, 20mV MAX, 10mA. (Based upon EIA-364-06A).	Initial: 20 milliohms Max. After Test: 40 milliohms Max.
5-1-2	绝缘阻抗 Insulation Resistance	公母配合,在相邻端子,端子与地片之间,使用 250V 的直流电,检测连接器. Mate connectors, apply 250V DC between adjacent terminal or ground. (Based upon EIA-364-21B / MIL-STD-202 Method 302 Cond.B)	100 Megohms Min.
5-1-3	耐电压 Dielectric Strength	公母配合,在相邻端子,端子与地片之间,使用 500V 的交流电 1 分 锺,检测连接器. Mate connectors, apply 500V AC for 1 minute between adjacent terminal or ground. (Based upon EIA-364-20A / MIL-STD-202 Method 301)	不出现中断等情况 No Breakdown and Flashover
5-1-4	铆线后端子接触阻 抗 Contact resistance on crimped portion	铆线后之端子,开放电压 20mV 以下,电流 10mA 检测连接器. Crimp the applicable wire on to the terminal measure by dry circuit 20mV MAX, 10mA.	10 milliohms Max.

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<b>i-2.</b> 机	械的性能 Mecha	nical Performance.		
	项目	条件	规	格
	[Item]	Test Condition	[Require	ement】
		以每分锺 25.4±3mm 的速率插入和拔出.		
		Insert and withdraw Connectors at the speed rate of		
		25.4±3mm/minute.		
5-2-1	插拔力 Insertion & withdraw Force		参照第 6 项 Refer to paragraph 6	
5-2-2	端子保持力 Terminal/ Housing Retention Force	以每分 25.4±3mm 的速率,将端子从 Housing 内轴向拔 出的力量. Apply axial pull out force at the speed rate of 25.4±3mm/minute on the terminal assembled in the housing.	6.86N {0.7kgf} Min.	
5-2-3	端子插入力 Terminal Insertion Force	铆线后之端子插入 Housing 所需最大力量. Insert the crimped terminal into the housing.	4.9N {0.5k	gf} Max.
5-2-4	Pin 针保持力 Pin Retention Force	以每分 25.4±3mm 的速率,将 PIN 针从 Wafer 内轴向拔 出的力量. Apply axial push force at the speed rate of 25.4±3mm/minute.	4.90N {0.50	lkgf} min.

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Product	Specification	[产品规
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	项目	条件	规	1	格	
	[Item]	Test Condition ]	[Requirement]			
		固定铆线后的端子,使电线与端子分离时所需的最小力量.	AWG	28	30	32
		Fix the crimped terminal, apply axial pull out force on the	Spec.kgf.	1.0	0.5	0.3
		wire. (Do not crimp insulation part).	Min.	1.0	0.5	0.5
5-2-5	端子压着强度 (Crimped contact	Contact	Note> As for uns this specificatio c			I 1

### 5-3. 环境性能及其它 Environmental Performance and Others.

	项目	条件	规格	
	[Item]	[Test Condition]	[Require	ement]
5-3-1	重复插拔 Repeated Insertion/ Withdrawal	以每分锺不超过 10 次的速率,将公母插拔 30 次. When mated up to 30 cycles repeatedly by the rate of 10 cycles per minute.	接触阻抗 Contact Resistance	40 milliohms Max.
5-3-2	温升測试 Temperature Rise	公母连接器配合后,加载额定电流直到温度上升到稳定 状态,然后再测量温升(EIA364-70,Method 1) Mating connectors shall be energized at rating current until thermal stability is achieved, and then measured the termperature rise. (EIA364-70,Method 1)	温升測试 Temperature rise	30℃ Max.
	振幅: 1.5mm P-P 时间: 10~55~10 HZ in 1 minute	外观 Appearance	无异状 No Damage	
5-3-3	振动测试 Vibration test	持续时间:每轴向2小时 Amplitude: 1.5mm P-P Sweep time: 10~55~10 HZ in 1 minute	接触阻抗 Contact Resistance	40 milliohms Max.
		Duration: 2 hours in each X.Y.Z axials. (Based upon EIA-364-28B/MIL-STD-202 Method 213B Cond.A)	瞬断 Discontinuity	1 micro- second Max.
			外观	无异状
		た ¥ ¥ 7 と 6 今古白 と 11 400m/s2/50s 始古县 ) 地土 てタ	Appearance	No Damage
	冲击测试	在X.Y.Z上 6 个方向上,以 490m/s <sup>2</sup> (50g 的力量)冲击下各. 3 回.490m/s <sup>2</sup> {50G}, 3 strokes in each X.Y.Z. axes.	接触阻抗	
5-3-4	Shock test	(Based upon EIA-364-27B/MIL-STD-202 Method 213B	Contact	40 milliohms Max.
	SHOCK LEST	Cond.A)	Resistance	
		Containty	瞬断	1 micro-
			Discontinuity	second Max.
	耐热性	85±2℃,96 hours.	外观	无异状
5-3-5	Heat Resistance	(Based upon MIL-STD-202 Method 108A Cond.A)	Appearance	No Damage

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			接触阻抗	
			Contact	40 milliohms Max.
			Resistance	
			外观	无异状
	the solution of the		Appearance	No Damage
5-3-6	耐寒性	-25±5°C,96 hours.	接触阻抗	
	Cold Resistance	( Based upon EIA-364-105)	Contact	40 milliohms Max.
			Resistance	
			外观	无异状
		温度: <b>40±2</b> ℃	Appearance	No Damage
		湿度: 90~95%(RH)	接触阻抗	
	耐湿性	持续时间: 96 hours	Contact	40 milliohms Max.
5-3-7		Temperature: 40±2°C Relative Humidity: 90~95%	Resistance 耐电压	Must meet 5-1-3
	Humidity	Duration: 96 hours	Dielectric	Huse meet 5-1-5
		(Based upon EIA-364-31A/MIL-STD-202 Method 103B	Strength	
		Cond.B)	绝缘阻抗 Insulation	100 Megohms
			Resistance	Min.
			外观	无异状
5-3-8	温度变化	从-25℃持续 30 分锺升至+85℃持续 30 分锺,循环 5 次.	Appearance	No Damage
	Temperature	re 5 cycles of: a) -25 °C 30 minutes. b) +85 °C 30 minutes.	接触阻抗	
	Cycling	(Based upon EIA-364-32B)	Contact	40 milliohms Max.

在温度 35±2℃,盐水浓度 5±1%下,盐水喷雾 24±1 小时.

24±1 hours exposure to a salt spray from the 5±1%

(Based upon EIA-364-26B/MIL-STD-202 Method 101D

solution at 35±2℃.

焊接时间: 3~5秒.

焊接温度: 245±5℃.

Soldering Time: 3~5second.

(Based upon EIA-364-52)

Solder Temperature: 245±5°C.

Cond.B).

盐水喷雾

Salt Spray

焊锡附着性

Solder-

ability

5-3-9

5-3-10

Appearance

接触阻抗

Contact

Resistance

Solder Wetting

No Damage

40 milliohms Max.

浸渍面积需 95%

以上

95% of immersed

area must show

no voids, pin

holes.



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项 目	条件	规	格
【Item】	【Test Condition】	【Require	ement】
焊锡耐热性 5-3-11 Solder- Resista	焊接时间: 5~10 秒. 焊接温度: 255+5/-5℃. Soldering time:5~10 sec solder. Temperature:255+5/-5℃. (Based upon EIA-364-56A)	外观 Appearance	无异状 No Damage

## 【6.综合插入力及拔出力 INSERTION/WITHDRAWAL FORCE】<Connector mating force>

		•						
PIN 数 No. of CKT	初次插入力(最大值) First Insertion (kgf Max.)	30 次拔出力(最小值) 30 <sup>th</sup> Withdrawal (kgf Min.)	PIN 数 No. of CKT	初次插入力(最大值) First Insertion (kgf Max.)	30 次拔出力(最小值) 30 <sup>th</sup> Withdrawal (kgf Min.)			
单排系列 (Single row Series)								
Single	0.80	0.03	11	5.00	0.50			
02	2.00	0.20	12	5.00	0.50			
03	2.00	0.20	13	5.00	0.50			
04	2.00	0.20	14	6.00	0.60			
05	3.00	0.30	15	6.00	0.60			
06	3.00	0.30	16	6.00	0.60			
07	3.00	0.30	17	7.00	0.70			
08	4.00	0.40	18	7.00	0.70			
09	4.00	0.40	19	7.00	0.70			
10	4.00	0.40	20	8.00	0.80			

注: 以上插拔次数为 30 次 Note: Insertion and Withdrawal for 30Cycles

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