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Product Specification [产品规格书]:	Document No	PS-1251-02
Subject [主题]:	Date Issued	2019/06/09
1.25mm Pitch 1251 Series Connector Specification	Date Revised	2018/05/26
	Version	AO
This specification is referred to the 1.25mm series 家引【INDEX】	wire to board c	onnector
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WRITTEN BY: Yangzhengguo

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## 【1.适用范围 Scope】

此种规格包括 1.25mm Pitch 1251 Series 连接器规格说明.

This Specification Covers the 1.25mm Pitch 1251 Series Connector Specification.

### 【2.规格与料号 Spec and Part number】

规格内容 Specification	产品料号 Production No.	产品图示 Picture of Product
端子/Terminal	1251T-PXX	A Contract of
胶壳/Housing	1251H-XX-N0HF	The second
针座/Wafer	1251WRS-XXHF-LPSW 1251WVS-XXHF-LPSW	PPPPPPP

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

规格内	容	材 质	表面处理
Specific	ation	Materials	Disposal of Surface
端子/Terminal		磷铜/Phosphor Bronze	Nickel: Over 30 $\mu^{\prime\prime}$ .Tin: Over 70 $\mu^{\prime\prime}$ .
胶壳/Hou	using	PA66	UL 94V-0
	Base	LCP	UL 94V-0
针座/Wafer PIN		磷铜/Phosphor Bronze	Over Tin 70µ" Plated Over 30µ" Nickel
	Solder tab	磷铜/Phosphor Bronze	Over Tin 70µ" Plated Over 30µ" Nickel

(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.)	(Max.) 1.0A [AC/DC]		
使用温度范围 Ambient temperature Range	ge -40°C ~+105°C		
适用线径 Applicable wire insulation O.D	26AWG~30AWG Insulation O.D. 1.00mm(Max.)		

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

connectors DONC 也址:广东 Address: 72 H	莞市国亚电子有 GGUO GUOYA ELECTRON 総省东莞市长安镇増田 lengzeng Road,Zengtiar 1769816 传真:076 782 诚信通:gya	ncs co.,LTD 日村横增路 72 号 1 Village,Chang'an Town,Dongguan cigy,Guangdong Province 9-87089563 E-mail:gya1688@gdgya.com		
roduct Spe	ecification [产	品规格书]: D	Ocument No	PS-1251-02
ıbject []	主题]:	D	ate Issued	2019/06/09
1.2	5mm Pitch 1251 S	-	ate Revised	2018/05/26
	PERFORMAN	NCE】	Tersion	AO
	<u>气的性能 Elec</u> 项 目 【Item】	trical Performance.	规	格 uirement】
5-1-1	接触阻抗 Contact Resistance	公母配合,开放电压 20mV 以下,电流 10mA 检测速 器 A~B 区. Mate connectors, measure by dry circuit, 20 MAX, 10mA. (Based upon EIA-364-06A).	imV 30 mil Afi	Initial: liohms Max. ter Test: liohms Max.
5-1-2	绝缘阻抗 Insulation Resistance	母配合,在相邻端子,端子与地片之间,使用 250V 的 流电,检测连接器. ate connectors, apply 250V DC between adjacent minal or ground. ased upon EIA-364-21B / MIL-STD-202 Method 2 Cond.B)		egohms Min.
5-1-3	耐电压 Dielectric Strength	Mate connectors, apply 500V AC for 1 minute No Break		已中断等情况 Breakdown I Flashover
5-1-4	触阻抗 Contact	铆线后之端子,开放电压 20mV 以下,电流 10mA 相 连接器. Crimp the applicable wire on to the term	10 mil	liohms Max.

resistance on Crimp the applicable wire on to the terminal

crimped portion measure by dry circuit 20mV MAX, 10mA.

uct Sp	ecification [7	举品规格书]:	Document No	PS-1251-02
ject [	主题]:		Date Issued	2019/06/09
1.2	5mm Pitch 1251	Series Connector Specification	Date Revised	2018/05/26
+	T 늘려 하는 사는 수는 Ma		Version	AO
	项目	chanical Performance. 条件	规	格
	[Item]	[Test Condition]	Require	ment
	插拔力	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.	45 UZ 65	6 75
5-2-1	Insertion & withdraw Force	PUL	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 FFC in the housing.	6.9N {0.7k	gf} 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 内轴向推出的力量. Apply axial push force at the speed rate of 25.4±3mm/minute.		

WRITTEN BY: Yangzhengguo

APPROVED BY: Lvtiansheng

Sheet: 4 of 8

东莞市国亚电子有限公司 GYA DONGGUO GUOYA ELECTRONICS CO.,LTD 址:广东省东莞市长安镇增田村横增路72号 地 Address: 72 Hengzeng Road, Zengtian Village, Chang' an Town, Dongguan cigy, Guangdong Province E-Tel: 0769-81769816 传真: 0769-87089563 E-mail: gya1688@gdgya.com QQ: 316563782 诚信通: gya 旗舰店 网站: www.gdgya.com Product Specification [产品规格书]: Document No PS-1251-02 Subject [主题]: Date Issued 2019/06/09 1.25mm Pitch 1251 Series Connector Specification Date Revised 2018/05/26 Version A0 件 项目 条 规 格 **Test Condition** [Item] [Requirement] Lock 以每分 25.4±3mm 的速率,将 HSG 从 Wafer HSG 卡扣保持 内轴向拔出的力量. 5-2-5 力 9.8N {1.00kgf} Min. Apply axial push force at the speed rate of Lock Retention 25.4±3mm/minute. Force 固定铆线后的端子,使电线与端子分离时所需 AWG 26 28 30 的最小力量. Spec. Fix the crimped terminal, apply axial pull out 0.5 kgf 2.0 1.0 force on the wire. (Do not crimp insulation 5-2-6 端子压着强度 Min. part). (Crimped Contact Wire Note > As for unspecified wire sizes connections) in this specification define values Pulling load with clients

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

	项目 条 件 规 格				
l	[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 50 次. When mated up to 50 cycles repeatedly by the rate of 10 cycles per minute.	接触阻抗 Contact	50 milliohms Max.	
5-3-2	温升测试 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)	温升测试 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 振动测试 Amplitude: 1.5mm P-P	接触阻抗 Contact Resistance	50 milliohms Max.	
			瞬断	1 micro- second Max.	
		在X.Y.Z上6个方向上,以490m/s <sup>2</sup> (50g的力量)	外观 Appearance	无异状 No Damage	
5-3-4	冲击测试 Shock test	冲击下各 3 回. 490m/s <sup>2</sup> {50G}, 3 strokes in each X.Y.Z. axes. (Based upon EIA-364-27B/MIL-STD-202	接触阻抗 Contact Resistance	50 milliohms Max.	
	Method 213B Cond.A)		瞬断 Discontinuity	1 micro- second Max.	
		105±2℃,96 hours.	外观 Appearance	无异状 No Damage	
5-3-5	耐热性 Heat Resistance	(Based upon MIL-STD-202 Method 108A Cond.A)	接触阻抗 Contact Resistance	50 milliohms Max.	

**CVA** 东莞市国亚电子有限公司

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# Product Specification [产品规格书]:

QQ: 316563782 诚信通: gya 旗舰店

Subject [主题]:

1.25mm Pitch 1251 Series Connector Specification

	项 目 【Item】	条件 【Test Condition】	规 【Require	格 ement】
5.2.6	耐寒性	-40±5℃,96 hours.	外观 Appearance	无异状 No Damage
5-3-6	Cold Resistance	(Based upon EIA-364-105)	接触阻抗 Contact Resistance	50 milliohms Max.
		温度: <b>40±2</b> ℃	外观 Appearance	无异状 No Damage
	耐湿性	湿度: 90~95%(RH) 持续时间: 96 hours	接触阻抗 Contact Resistance	50 milliohms Max.
5-3-7	Humidity	Temperature: 40±2℃ Relative Humidity: 90~95% Duration: 96 hours	耐电压 Dielectric Strength	Must meet 5-1-3
		(Based upon EIA-364-31A/MIL-STD-202 Method 103B Cond.B)	绝缘阻抗 Insulation Resistance	100 Megohms Min.
		从-40℃持续30分锺升至+105℃持续30分锺,	外观	无异状
	温度变化 循环 5 次.	Appearance	No Damage	
5-3-8	Temperature Cycling	5 cycles of: a) -40°C 30 minutes. b) +105°C 30 minutes. (Based upon EIA-364-32B)	接触阻抗 Contact	50 milliohms Max.
			Resistance	
5.2.0	盐水喷雾	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	外观 Appearance	无异状 No Damage
5-3-9	Salt Spray	the 5±1% solution at 35±2℃. (Based upon EIA-364-26B/MIL-STD-202 Method 101D Cond.B).	接触阻抗 Contact Resistance	50 milliohms Max.
5-3-10	焊锡附着性 Solder- ability	焊接时间: 3~5 秒. 焊接温度: 245±5℃. Soldering Time: 3~5second. Solder Temperature: 245±5℃. (Based upon EIA-364-52)	Solder Wetting	浸渍面积需 95%以上 95% of immersed area must show no voids, pin holes.
5-3-11	焊锡耐热性 Solder- Resistance	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

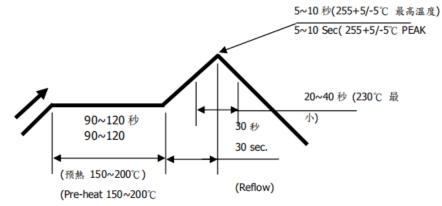
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### 【6.综合插入力及拔出力 INSERTION/WITHDRAWAL FORCE】<Connector mating force>

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.)
2	1.73	0.05	9	2.45	0.40
3	1.83	0.10	10	2.55	0.45
4	1.93	0.15	11	2.65	0.50
5	2.04	0.20	12	2.76	0.55
6	2.14	0.25	13	2.86	0.60
7	2.24	0.30	14	2.96	0.65
8	2.35	0.35	15	3.06	0.70

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

### 【7. SMT 回流条件 SMT REFLOW CONDITION】



#### 温度条件曲线图/ 基板上温度

### TEMPERATURE CONDITION GRAPH/ (TEMPERATURE ON BOARD PATTERN SIDE)

注记: 由于 P.C 板等焊接装置改变条件,所以请预先用自己的装置检查回流焊的条件.

Notes: Please check the reflow soldering condition by your own devices beforehand. Because the condition changes by the soldering devices, P.C. boards, and so on.