GYA 东莞市国亚电子有限公司 DONGGUO GUOYA ELECTRONICS CO.LTD		
[<u>Connectors</u>] DONGGUO GUOYA ELECTRONICS CO., LTD 地 址: 广东省东莞市长安镇增田村横增路 72 号		
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Product Specification [产品规格书]:	Document No	PS-1300-01
Subject [主题]:	Date Issued	2019/06/09
1.30mm Pitch 1300 Series Connector Specification	Date Revised	2018/05/26
	Version	AO
This specification is referred to the 1.30mm series wir	e to board conn	ector
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【1.适用范围 Scope】

此种规格包括 1.30mm Pitch 1300 Series 连接器规格说明.

This Specification Covers the 1.30mm Pitch 1300 Series Connector Specification.

【2. 規格与料号 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	1300T-H10S-01F	
胶壳/Housing	1300H-1xXX-XXXH01F	B B
针座/Header	1300WRS-1xXX-4TXH10RH001F	

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

规格内容		材质	表面处理
Specifica	ation	Materials	Surface treatment
端子/Terminal		erminal 高导铜/High conductivity copper Nickel: Over 50µ" . Gold Fla	
胶壳/Hou	sing	LCP/PA66 UL 94V-0	1
	Base	High Temperature Plastic UL 94V-0	1
针座/Header	PIN	高导铜/ High conductivity copper	Nickel: Over $50\mu^{\prime\prime}$. Gold Flash
	Solder tab	黄铜/Brass	Over Tin 100 μ " Plated Over 50 μ " 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.)	30V		
额定电流 Rated Current (Max.)	3.0A	[AC/DC]	
使用温度范围 Ambient temperature Range	-40°C~+105°C		
适用线径 Applicable wire insulation O.D	AWG 28#、26#、 Insulation O.D. 0.98mm(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	规格	
	[Item] [Test Condition]		[Requirement]
		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).	
5-1-1	接触阻抗 Contact Resistance	Socket Header	Initial: 20 milliohms Max. After Test:
Resistance	Resistance		30 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 500V 的直流电,检测连接器. Mate connectors, apply 500V 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 锤,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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5-2. 机械的性能 Mechanical Performance.

项 目 【Item】		条件 【Test Condition】	规格 【Requirement】
		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	Insertion Withdrawal	参照第 6 项 Refer to paragraph 6
5-2-2	端子保持力 Terminal/	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.	4.9N {0.5kgf} 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.	9.8N {1.0kgf} 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 Header 内轴向推 出的力量. Apply axial push force at the speed rate of 25.4±3mm/minute.	0.5N {0.05kgf} Min.

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项 目 【Item】			条件 【Test Condition】		规 【Req	格 uirement】	
		固定铆线后的端子,	使电线与端子分离时	时所需的最小力量.	AWG#	#28	#26
	端子压着强度 Tensile	-	minal, apply axial pu insulation part).	I out force on the	Spec.kgf. Min.	1.0	1.5
5-2-5 strength (Crimped connections)		Contact	Wire	Pulling load	Note> As for un this specificatio		

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

项 目 【Item】				格 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 10 次. When mated up to 10 cycles repeatedly by the rate of 10 cycles per minute.	接触阻抗 Contact Resistance	30 milliohms Max.
5-3-2	温升测试 Temperature Rise	公母对插后,在通过额定电流下,所测定的温度. Carrying rated current load. (UL 1977)	温升测试 Temperature rise	30°C Max.
		振幅: 1.5mm P-P 时间: 10~55~10 HZ in 1 minute 持续时间: 每轴向 2 小时 Amplitude: 1.5mm P-P Sweep time: 10~55~10 HZ in 1 minute Duration: 2 hours in each X.Y.Z axials. (Based upon EIA-364-28B/MIL-STD-202 Method 213B Cond.A)	外观 Appearance	无异状 No Damage
5-3-3	振动测试 Vibration test		接触阻抗 Contact Resistance	30 milliohms Max.
			瞬断	1 micro- second Max.
			外观	无异状
	在 X.Y.Z 上 6 个方向上,以 490m/s ² (50g	在 X.Y.Z 上 6 个方向上, 以 490m/s ² (50g 的力量)冲击下各	Appearance	No Damage
5-3-4	冲击测试	3 回.490m/s²{50G}, 3 strokes in each X.Y.Z. axes.	接触阻抗 Contact	30 milliohms Max.
	Shock test	(
	Cond.A)	瞬断	1 micro-	
			Discontinuity	second Max.

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项 目 【Item】		条件	規 格	
		Test Condition	[Requirement]	
5-3-5	耐热性 Heat Resistance	85±2°C,96 hours. (Based upon MIL-STD-202 Method 108A Cond.A)	外观 Appearance 接触阻抗 Contact Resistance	无异状 No Damage 30 milliohms Max.
5-3-6	耐寒性 Cold Resistance	-25±5°C, 96 hours. (Based upon EIA-364-105)	外观 Appearance 接触阻抗 Contact Resistance	无异状 No Damage 30 milliohms Max
5-3-7	耐湿性 Humidity	温度: 40±2℃ 湿度: 90~95%(RH) 持续时间: 96 hours Temperature: 40±2℃ Relative Humidity: 90~95% Duration: 96 hours (Based upon EIA-364-31A/MIL-STD-202 Method 103B Cond.B)	外观 Appearance 接触阻抗 Contact Resistance 耐电压 Dielectric	无异状 No Damage 30 milliohms Max Must meet 5-1-3
			Strength 绝缘阻抗 Insulation Resistance	100 Megohms Min.
5 - 3-8	温度变化 Temperature Cyding	从-25℃持续 30 分锺升至+85℃持续 30 分锺,循环 5 次. 5 cycles of: a) -25℃ 30 minutes. b) +85℃ 30 minutes. (Based upon EIA-364-32B)	外观 Appearance 接触阻抗 Contact	无异状 No Damage 30 milliohms Max
5-3-9	盐水喷雾 Salt Spray	在温度 35±2℃,盐水浓度 5±1%下,盐水喷雾 48±1 小时. 48±1 hours exposure to a salt spray from the 5±1% solution at 35±2℃. (Based upon EIA-364-26B/MIL-STD-202 Method 101D	Resistance 外观 Appearance 接触阻抗	无异状 No Damage
5-3-10	焊锡附着性 Solder- ability	Cond.B). 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)	Contact Resistance Solder Wetting	30 milliohms Max. 浸渍面积需 95% 以上 95% of immersed area must show no voids, pin holes.

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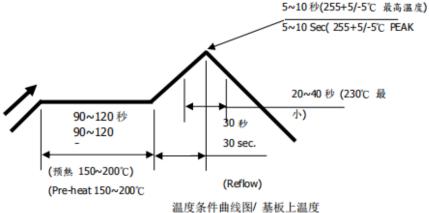
项 目	条件	規	格
【Item】	【Test Condition】	【Require	ement】
焊锡耐热性 5-3-11 Solder- Resistance	焊接时间: 5~10 秒. 焊接温度: 255+5/-5℃. Soldering time: 5~10 sec solder. Temperature: 255+5/-5℃. (Based upon EIA-364-56A)	外观 Appearance	无异状 No Damage

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

PIN 数	初次插入力(最大值)	10 次拔出力(最小值)	PIN 数	初次插入力(最大值)	10 次拔出力(最小值)
No. of	First Insertion	10 th Withdrawal	No. of	First Insertion	10 th Withdrawal
СКТ	(kgf Max.)	(kgf Min.)	СКТ	(kgf Max.)	(kgf Min.)
02	1.90	0.12	08	3.70	0.12
03	2.20	0.12	09	4.00	0.12
04	2.50	0.12	10	4.30	0.12
05	2.80	0.12	11	4.60	0.12
06	3.10	0.12	12	4.90	0.12
07	3.40	0.12			

注: 以上插拔次数为 10 次 Note: Insertion and Withdrawal for 10Cycles

【7. SMT 回流条件 SMT REFLOW CONDITION】



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.