

Product Specification [产品规格书]:	ISSUED BY: Engineering Dept	
Subject [主题]: 2.00mm Pitch 2060 Series Connector Specification	Date Issued	2015/10/17
	Date Revised	2016/08/16

This specification is referred to the 2.00mm series wire to board connector

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### 【1.适用范围 Scope】

此种规格包括 2.00mm Pitch 2060 Series 连接器规格说明.

This Specification Covers the 2.00mm Pitch 2060 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	JVT2060TP-XXS	NONE
胶壳/Housing	JVT2060HN0-2*XXL	NONE
针座/Wafer	JVT2060WXX-2*XXSNP-D JVT2060WXX-2*XXSNRP-D	NONE

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

规格内容 Specification	材质 Materials	表面处理 Disposal of Surface
端子/Terminal	磷铜/Phosphor Bronze	Tin Plated
胶壳/Housing	PA66	UL 94V-0
针座/Wafer	Base	PA66/PA46
	PIN	黄铜/Brass

(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】

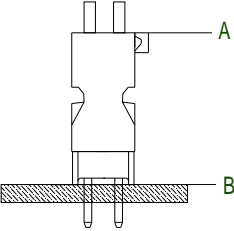
项目【Item】	规格【Standard】	
额定电压 Rated Voltage (Max.)	250V	[AC/DC]
额定电流 Rated Current (Max.)	3A	
使用温度范围 Ambient temperature Range	-25°C~+85°C	
适用线径 Applicable wire insulation O.D	AWG 22#~28# Insulation O.D. 1.5mm(Max.)	

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

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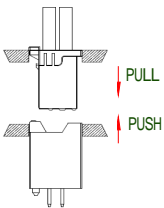
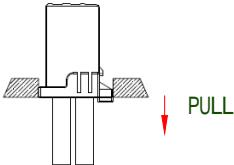
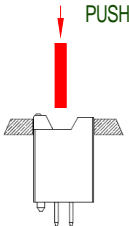
### 【5.性能 PERFORMANCE】

#### 5-1. 电气的性能 Electrical Performance.

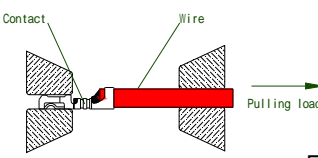
项目 【Item】	条 件 【Test Condition】	规 格 【Requirement】
5-1-1 接触阻抗 Contact Resistance	<p>公母配合,开放电压 20mV 以下,电流 10mA 检测连接器 A~B 区. Mate connectors, measure by dry circuit, 20mV MAX, 10mA. (Based upon EIA-364-06A).</p> <div style="text-align: center;">  <p>图片供参考</p> </div>	Initial: 20 milliohms Max.
5-1-2 绝缘阻抗 Insulation Resistance	<p>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)</p>	1000 Megohms Min.
5-1-3 耐电压 Dielectric Strength	<p>公母配合,在相邻端子,端子与地片之间,使用 800V 的交流电 1 分钟,检测连接器. Mate connectors, apply 800VAC for 1minute between adjacent terminal or ground. (Based upon EIA-364-20A / MIL-STD-202 Method 301)</p>	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	<p>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.</p>	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】
5-2-1 插拔力 Insertion & Retention Force	<p>以每分鍾 25.4±3mm 的速率插入和拔出。 Insert and withdraw Connectors at the speed rate of 25.4±3mm/minute.</p>  <p>图片供参考</p>	<p>参照第 6 项 Refer to paragraph 6</p>
5-2-2 端子保持力 Terminal/ Housing Retention Force	<p>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.</p>  <p>图片供参考</p>	<p>10N {1.0kgf} Min.</p>
5-2-3 端子插入力 Terminal Insertion Force	<p>铆线后之端子插入 Housing 所需最大力量。 Insert the crimped terminal into the housing.</p>	<p>9.8N {1.0kgf} Max.</p>
5-2-4 Pin 针保持力 Pin Retention Force	<p>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.</p> 	<p>10N {1.0kgf} min.</p>

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项目 【Item】	条 件 【Test Condition】	规 格 【Requirement】					
5-2-5 端子压着强度 (Crimped connections)	固定铆线后的端子，使电线与端子分离时所需的最小力量。 Fix the crimped terminal, apply axial pull out force on the wire. (Do not crimp insulation part).	AWG#	#22	#24	#26	#28	#30
		Spec. kgf.	4.0	3.0	2.0	1.0	
		Min.					
	 图片供参考	Note> As for unspecified wire sizes in this specification define values with clients					

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

项目 【Item】	条 件 【Test Condition】	规 格 【Requirement】	
5-3-1 重复插拔 Repeated Insertion/ Withdrawal	以每分钟不超过 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	20 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.
5-3-3 耐振动性 Vibration	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
		接触阻抗 Contact Resistance	20 milliohms Max.
		瞬断 Discontinuity	1 micro-second Max.

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项目 【Item】		条件 【Test Condition】	规格 【Requirement】	
5-3-4	耐热性 Heat Resistance	85±2°C,96 hours. (Based upon MIL-STD-202 Method 108A Cond.A)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	20 milliohms Max.
5-3-5	耐寒性 Cold Resistance	-25±3°C,96 hours. ( Based upon EIA-364-105)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	20 milliohms Max.
5-3-6	耐湿性 Humidity	温度: 40±2°C 湿度: 90~95%(RH) 持续时间: 96 hours Temperature: 40±2°C Relative Humidity: 90~95% Duration: 96 hours (Based upon EIA-364-31A/MIL-STD-202 Method 103B Cond.B)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	20 milliohms Max.
			耐电压 Dielectric Strength	Must meet 5-1-3
			绝缘阻抗 Insulation Resistance	500 Megohms Min.
5-3-7	温度变化 Temperature Cycling	从-25°C持续 30 分钟升至+85°C持续 30 分钟,循环 5 次. 5 cycles of: a) -25°C 30 minutes. b) +85°C 30 minutes. (Based upon EIA-364-32B)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	20 milliohms Max.
5-3-8	盐水喷雾 Salt Spray	在温度 35±2°C,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% solution at 35±2°C. (Based upon EIA-364-26A/MIL-STD-202 Method 101D Cond.B).	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	20 milliohms Max.
5-3-9	焊锡附着性 Solder-ability	焊接时间: 3~5 秒. 焊接温度: 245±5°C. Soldering Time: 3~5second. Solder Temperature: 245±5°C. (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.

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项 目 【Item】	条 件 【Test Condition】	规 格 【Requirement】	
5-3-10 焊锡耐热性 Solder-Resistance	焊接时间: 3~5 秒. 焊接温度: 245+/-5°C. Soldering time:3~5 sec solder. Temperature:245+/-5°C. (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.)
2*04	2.5	0.10	2*14	5.5	0.60
2*05	2.8	0.20	2*15	5.8	0.70
2*06	3.1	0.20	2*16	6.1	0.70
2*07	3.4	0.30	2*17	6.4	0.80
2*08	3.7	0.30	2*18	6.7	0.80
2*09	4.0	0.40	2*19	7.0	0.90
2*10	4.3	0.40	2*20	7.3	1.00
2*11	4.6	0.50			
2*12	4.9	0.50			
2*13	5.2	0.60			

注：以上插拔次数为 30 次

Note : Insertion and Withdrawal for 30Cycles