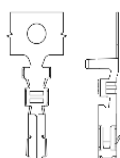
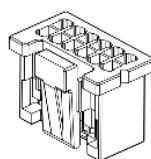
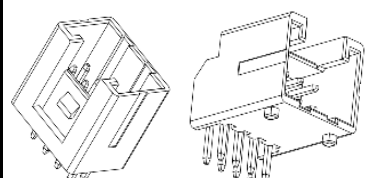
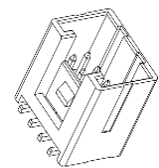




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This specification is referred to the 2.00mm series wire to board connector 索引【INDEX】 1. 适用范围【Scope】 2. 规格与料号【Spec and Part number】 3. 材质与表面处理【Disposal of Material and surface】 4. 额定等级【Ratings and applicable wires】 5. 性能【Performance】 5-1. 电气的性能【Electrical Performance.】 5-2. 机械的性能【Mechanical Performance】 5-3. 环境性能及其它【Environmental Performance and Others】 6. 综合插入力及拔出力【Insertion/Withdrawal Force】 7. 注意事项 Caution			
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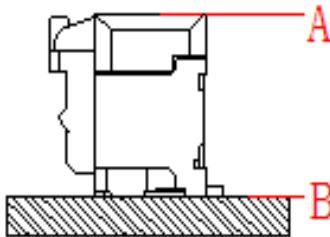


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【1.适用范围 Scope】 此种规格包括 连接器规格说明. This Specification Covers the 2.00mm Pitch SCT2020 Series Connector Specification. 【2.规格与料号 Spec and Part number】			
规格内容 Specification	产品料号 Production No.	产品图示 Picture of Product	
端子/Terminal	SCT2020TLPS164 SCT2020TAPS164 SCT2020TSAPS164		
胶壳/Housing	SCT2020H-2xxBWT164		
直、弯针座/Wafer	SCT2020WV-2xxB0WT164 SCT2020WR-2xxB0WT164		
立、卧SMT针座/Wafer	SCT2020WVS-2xxF1BE164		
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【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		磷青铜/Phosphor Bronze	镀锡 Tin Plating
胶壳/Housing		PA66 UL94-V0	颜色: 白色 Color: White
直、弯针座 /90° 180° DIP Wafer	塑胶 Plastic	PA66 UL94-V0	颜色: 白色 Color: White
	插针 Contact	黄铜/Brass	镀锡 Tin Plating
立贴针座 /180°SMTW afer	塑胶 Plastic	LCP UL94-V0	颜色: 米色 Color: Beige
	插针 Contact	黄铜/Brass	镀锡 Tin Plating
	焊护耳 Solder tab	黄铜/Brass	镀锡 Tin Plating
(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.)		200V Max	AC/DC
额定电流 Rated Current (Max.)		3A Max	AC/DC
使用温度范围 Ambient temperature Range		-25℃~+85℃	
适用线径 Applicable wire insulation O.D		22 ~ 30AWG Insulation O.D:0.76~1.5mm	
		Sheet: 3 of 10	

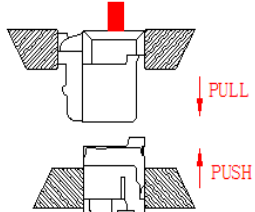
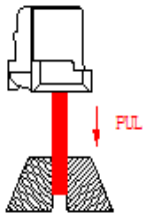
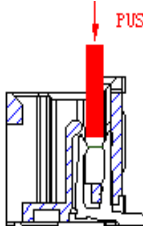


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【5.性能 PERFORMANCE】			
5-1.电气的性能 Electrical Performance.			
项 目 【Item】		条 件 【Test Condition】	规 格 【Requirement】
05-1-1	接触电阻 ContactResistance	公母配合,开放电压 20mV 以下,电流 100mA 检测连接器 A~B 区. Mate connectors, measure by dry circuit, 20mV MAX, 100mA. Initial:20milliohms M	20mΩ Max
			
05-1-2	绝缘阻抗 Insulation Resistance	公母配合,在相邻端子,端子与地片之间,使用 800V 的直流电,检测连接器. Mate connectors, apply 800V DC between adjacent terminal or ground.	1000 MΩ Min
05-1-3	耐电压 Dielectric Strength	公母配合,在相邻端子,端子与地片之间,使用 800V 的交流电 1分钟,检测连接器. Mate connectors, apply 800V AC for 1 minute between adjacent terminal or ground.	没有击穿或者出现电火花 No Breakdown and Flashover
		Sheet: 4 of 10	



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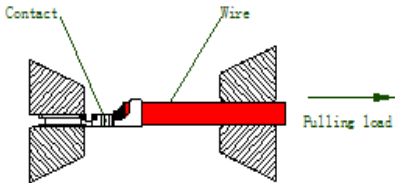
5-2. 机械的性能 Mechanical Performance.

项 目 【Item】	条 件 【Test Condition】	规 格 【Requirement】
05-2-1 插拔力 Insertion & Retention Force	以每分钟 25.4±3mm 的速率插入和拔出. Insert and withdraw Connectors at the speed rate of 25.4±3mm/minute. 	参照第 6 项 Refer to paragraph 6
05-2-2 端子保持力 Terminal/Housing Retention Force	以每分钟 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. 	单一接触点: 10N Min Per contact: 10N Min
05-2-3 Pin针保持力 Pin Retention Force	以每分钟 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. 	单一接触点: 12N Min Per contact: 12N Min



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5-2. 机械的性能 Mechanical Performance.

项 目 【Item】		条 件 【Test Condition】	规 格 【Requirement】	
05-2-4	端子压接导线强度 Terminal crimping wire strength	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线号(mm ²)	Spec.N.Min.
			22AWG(0.30mm ²)	≥45N
			24AWG(0.20mm ²)	≥30N
			26AWG(0.15mm ²)	≥20N
			28AWG(0.08mm ²)	≥15N
			注>对于本规范中未指定的导线尺寸 规范与客户端定义值 Note> As for unspecified wire sizes in this specification define values with clients	

5-3. 环境性能 Endurance Characteristics:

05-3-1	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.	接触电阻 Contact Resistance	20mΩ Max.
05-3-2	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 Mating connectors shall be energized at rating current until thermal stability is achieved, and then measured the temperature rise	温升测试 Temperature rise	30℃ Max.



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5-3. 环境性能 Endurance Characteristics:				
项 目 【Item】		条 件 【Test Condition】	规 格 【Requirement】	
05-3-3	震动测试 Vibration	振幅: 1.5mm P-P 频率: 10-55-10 Hz/1minute 持续时间: 每轴向 2 小时 Amplitude: 1.5mm P-P Frequency: 10-55-10 Hz/1minute Duration: 2 hours in each X.Y.Z axis.	外观 Appearance	无异状 No Damage
			接触电阻 Contact Resistance	20mΩ Max.
			瞬断 Discontinuity	1 micro□second Max.
05-3-4	耐热性 Heat Resistance	Temperature:85±3℃ Period:96 hours continuously 温度: 85±3℃ 周期: 持续96小时	外观 Appearance	无异状 No Damage
			接触电阻 Contact Resistance	20mΩ Max.
05-3-5	耐寒性 Cold Resistance	Temperature:-25±3℃ Period:96 hours continuously 温度: -25±3℃ 周期: 持续96小时	外观 Appearance	无异状 No Damage
			接触电阻 Contact Resistance	20mΩ Max.
			Sheet: 7 of 10	



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5-3. 环境性能 Endurance Characteristics:				
项 目 【Item】		条 件 【Test Condition】	规 格 【Requirement】	
05-3-6	耐湿性 Humidity	Temperature: 40±2℃ Relative humidity:90-95%RH Period:96 hours continuously 温度:40±2℃ 相对湿度:90-95% 周期: 持续 96小时	外观 Appearance	无异状 No Damage
			接触电阻 Contact Resistance	20mΩ Max.
			耐电压 Dielectric Strength	没有击穿或者出现电火花 No Breakdown and Flashover
			绝缘电阻 Insulation Resistance	500 MΩ Min.
05-3-7	温度变化 Temperature Cycling	One cycle consists of: -25±3℃,30min,Room temp.10-15 min 85±3℃,30min,Room temp.10-15 min Total cycle: 5 cycle -25±3℃,30分钟, 放置转换时间10-15分钟 85±3℃,30分钟, 放置转换时间10-15分钟 循环次数: 5次	外观 Appearance	无异状 No Damage
			端子与 HSG 保持力 Terminal/Housing Retention Force	满足 5-2-2 Must meet 5-2-2
			端子压着拉力测试 Crimping Pull Out Force	满足 5-2-4 Must meet 5-2-4
			接触电阻 Contact Resistance	20mΩ Max.
05-3-8	盐雾测试 Salt Spray	在温度 35±2℃,盐水浓度 5±1%下,盐水喷雾 24±1小时. 24±1hours exposure to a salt spray from the 5±1%solution at 35±2℃.	外观 Appearance	无异状 No Damage
			接触电阻 Contact Resistance	20 mΩ Max.
			Sheet: 8 of 10	



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5-3. 环境性能 Endurance Characteristics:				
项 目 【Item】		条 件 【Test Condition】	规 格 【Requirement】	
05-3-9	焊锡附着性 Solder- Resistance	Solder Temperature:245±5℃ Immersion period:2.5±0.5S 焊锡温度：245±5℃ 沉浸周期：2.5±0.5S	浸锡性 Solder Wetting	Area of Soldering: ≥ 95% 焊锡面积：≥95%
05-3-10	焊锡耐热性 Resistance to Soldering Heat	Place the connector on the P.C.Board, thenimmerse the solder pin up to the surface of theboard in the solder bath at 260℃+5℃ for 5±1S . 将连接器置于 PCB 板上，然后将露出 PCB 板表面的Pin 脚部分浸入 260 ℃± 5 ℃ 的锡炉中 5 ±1 秒。	外观 Appearance	无异状 No Damage
			接触电阻 Contact Resistance	20mΩ Max.
			Sheet: 9 of 10	



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

No Latching State

PIN 数 No.of CKT	At Initial 初始值	At 30th 插拔 30 次		PIN 数 No.of CKT	At Initial 初始值	At 30th 插拔 30 次
	I.F (Kgf Max) 插入 力	W.F (Kgf Max) 拔出 力			I.F (Kgf Max) 插入 力	W.F (Kgf Max) 拔出 力
2x4	25.00	1.00		2x14	53.00	16.00
2x5	28.00	3.00		2x15	56.00	18.00
2x6	31.00	4.00		2x16	62.00	19.00
2x7	33.00	6.00		2x17	65.00	21.00
2x8	36.00	7.00		2x18	68.00	22.00
2x9	39.00	9.00		2x19	71.00	24.00
2x10	41.00	10.00		2x20	74.00	25.00
2x11	44.00	12.00				
2x12	47.00	13.00				
2x13	50.00	15.00				

【7. 注意事项 Caution】

plastic because of characteristics with water after package is opened should avoid exposure to, the temperature is higher than 30 °C, humidity is higher than 60%RH inthe environment, and in the 24 hours after all after use, to prevent subsequent reflow,wave soldering process to produce foaming phenomenon of deformation

塑料因具有吸水之特性包装拆封后应避免暴露于，温度高于 30℃，湿度高于 60%RH 的环境中，并在拆封后 24 小时内全数使用完毕，防止后续回流焊、波峰焊制程产生起泡变形现象