

<b>Product Specification</b> (产品规格书)	<b>Issued By:</b> <b>Engineering Dept.</b>				
	<b>Subject (主题):</b> 2.54mm Pitch KR2540 Series Wire To Wire Connector Specification	<table border="1"> <tr> <td><b>Date Issued</b></td> <td>2022/2/26</td> </tr> <tr> <td><b>Date Revised</b></td> <td>2022/2/26</td> </tr> </table>	<b>Date Issued</b>	2022/2/26	<b>Date Revised</b>
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**1.0 适用范围 (Scope)**

此种规格包括2.54mm Pitch KR2541 Series 连接器规格说明.

This Specification Covers the 2.54mm Pitch KR2541 Series Connector Specification.

**2.0 规格与料号 (Spec and Part number)**

规格内容 <b>Specification</b>	产品料号 <b>Production No.</b>	产品图示 <b>Picture of Product</b>
胶壳/Housing	H2541F***0201C H2541M***0201C	
端子/Terminal	T2541FP***01C T2541MPT0101C	
针座/Wafer	None	

**3.0 材质与表面处理 (Disposal of Material and surface)**

规格内容 <b>Specification</b>		材 质 <b>Materials</b>	表面处理 <b>Disposal of Surface</b>
胶壳/Housing		PA66	UL94 V-0
端子/Terminal		Phosphor bronze	Tin Plated Over Nickel
针座/ Wafer	SMT Type	Base 主体	N/A
		Contact 导体	N/A
		Solder tab 固定片	N/A
	DIP Type	Base 主体	N/A
		Contact 导体	N/A
		Solder tab 固定片	N/A

(以上参数请以工程图为准/Please Refer to the Project drawing for the above Specification)

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**4.0 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(22AWG)	
使用温度范围Ambient temperature Range	-40°C~+105°C	
适用线径Applicable wire insulation O.D	Male: AWG 22# ~ 26# Insulation O.D. 1.63mm(Max.)	
适用线径Applicable wire insulation O.D	Female: AWG 24# ~ 28# Insulation O.D. 1.6mm(Max.)	

**5.0 电气性能 (Electrical Performance)**

项 目 Item	条 件 Test Condition	规 格 Requirement
5.1 接触阻抗 Contact Resistance	公母配合,开放电压 20mV 最大,电流 100mA最大 检测连接器 A~B 区. Mate connectors, measure by dry circuit, 20mV MAX, 100mA MAX. (Based upon EIA-364-23C)	20 milliohms Max.
5.2 绝缘阻抗 Insulation Resistance	公母配合 ,对相邻两接触导体,于1分钟内施加 500V 的直流电,并量测其间绝缘阻抗. Mate connectors,apply 500V DC for 1 minute between adjacent contacts to measure the insulation resistance. (Based upon EIA-364-21B)	1000 Megohms Min.
5.3 耐电压 Dielectric Strength	公母配合 , 在相邻端子或 端子与接地端之间,使用1500V的交流电 1 分钟,检测连接器. Mate connectors, apply 1500V AC for 1 minute between adjacent terminal or ground. (Based upon EIA-364-20A)	无损毁或出现电火花No Breakdown and Flashover

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**6.0 机械性能 (Mechanical Performance)**

项 目 <b>Item</b>		条 件 <b>Test Condition</b>		规 格 <b>Requirement</b>		
6.1	插拔力 Insertion & Withdrawal Force	以每分钟25.4±3mm的速率插入和拔出。 (不包含卡榫结合力) Insert and withdraw connectors at the speed rate of 25.4±3mm/minute. (Excluding plastic detents) (Based upon EIA-364-13D)		参照第8.0项 Refer to paragraph 8.0		
6.2	端子插入力 Terminal Insertion Force	铆线后之端子插入胶壳。 Insert the crimped terminal into the housing.		1.5 kgf (14.7 N) Max.		
6.3	端子保持力 Terminal/Housing Retention Force	以每分钟25.4±3mm的速率,将端子从胶壳内轴向拔出的力量。 Apply axial pull out force at the speed rate of 25.4±3mm/minute on the terminal assembled in the housing.		2.0 kgf (19.6 N) Min.		
6.4	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.		1.5 kgf (14.7 N) min.		
6.5	端子压接 Terminal Crimping Specification (Male Terminal)	Wire Size		22 AWG	24 AWG	26 AWG
		①	Crimp width	1.45±0.10		
			Crimp height	0.85±0.05	0.75±0.05	0.65±0.05
		②	Crimp width	1.80 Max.		
			Crimp height	1.75 Max.	1.55 Max.	1.50 Max.
		Crimp strength (kgf)	4.54 Min.	3.63 Min.	2.27 Min.	
		Stripping (mm)	2.5~3.0			
①Conductor(mm) ②Insulation(mm)						

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**7.0 环境性能及其它 (Environmental Performance and Others)**

项 目 Item		条 件 Test Condition	规 格 Requirement	
7.1	耐久性 Durability	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. (Based upon EIA-364-09C)	接触阻抗 Contact Resistance	40 milliohms Max.
7.2	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. (Based upon EIA-364-70B)	温升测试 Temperature Rise	30°C Max.
7.3	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)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	40 milliohms Max.
			瞬断 Discontinuity	1 micro-second Max.
7.4	耐冲击性 Shock	在 X.Y.Z 上 6 个方向上,以 490m/s <sup>2</sup> (50g) 冲击下各 3 回. 490m/s <sup>2</sup> {50g}, 3strokes in each X.Y.Z. axes. (Based upon EIA-364-27B)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	40 milliohms Max.
			瞬断 Discontinuity	1 micro-second Max.
7.5	耐热性 Heat Resistance	105±2°C,96 hours. (Based upon EIA-364-17B)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	40 milliohms Max.
7.6	耐寒性 Cold Resistance	-40±2°C,96 hours. (Based upon EIA-364-59)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	40 milliohms Max.

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项 目 Item		条 件 Test Condition	规 格 Requirement	
7.7	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-364-31B)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	40 milliohms Max.
			耐电压 Dielectric Strength	Must meet 5.3
			绝缘阻抗 Insulation Resistance	100 Megohms Min.
7.8	热冲击 Thermal shock	以-40℃持续30分钟经室温5分钟,而后以 105℃持续30分钟再经室温5分钟为一个 循环,共循环5次. One Cycle Consists Of: -40℃ for 30 minutes. → Room Temp. 5 minutes, +105℃ for 30minutes. → Room Temp. 5 minutes Total Cycles: 5 Cycles. (Based upon EIA-364-32B)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	40 milliohms Max.
7.9	盐水喷雾 Salt Spray	在温度35±2℃,盐水浓度5±1%下,盐水喷 雾16小时. 16 hours exposure to a salt spray from the 5±1% solution at 35±2℃. (Based upon EIA-364-26B)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	40 milliohms Max.

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**8.0 综合插入力及拔出力 (Insertion/withdrawal force)**  
**<Unit: kgf>**

No. of Circuits PIN数	At Initial 首次插入与拔出力 (初始值)		At 30 <sup>th</sup> 30次插入 与拔出后	No. of Circuits PIN数	At Initial 首次插入与拔出力 (初始值)		At 30 <sup>th</sup> 30次插入与 拔出后
	I.F.(MAX.) 插入力	R.F.(MIN.) 拔出力	R.F.(MIN.) 拔出力		I.F.(MAX.) 插入力	R.F.(MIN.) 拔出力	R.F.(MIN.) 拔出力
2	0.90	0.15	0.06	12	5.40	0.75	0.66
3	1.35	0.21	0.12	13	5.85	0.81	0.72
4	1.80	0.27	0.18	14	6.30	0.87	0.78
5	2.25	0.33	0.24	15	6.75	0.93	0.84
6	2.70	0.39	0.30	16	7.20	0.99	0.90
7	3.15	0.45	0.36	17	7.65	1.05	0.96
8	3.60	0.51	0.42	18	8.10	1.11	1.02
9	4.05	0.57	0.48	19	8.55	1.17	1.08
10	4.50	0.63	0.54	20	9.00	1.23	1.14
11	4.95	0.69	0.60				

**9.0 备注 (Remark)**

Any change or revision for the product specification will not be announced in advance.  
Please contact our sales representative for the latest information.

有关规格书内容经变更或改版，如未能及时发布与通知，烦请联系我司业务人员提供产品最新资讯

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