

Product Specification [产品规格书]:	Document No	PS-2544-03
Subject [主题]: 2.54mm Pitch Series Connector Specification	Date Issued	2022/02/17
	Date Revised	2022/02/17
	Version	A

This specification is referred to the 2.54mm series Female Header 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】

Product Specification [产品规格书]:	Document No	PS-2544-03
Subject [主题]: 2.54mm Pitch Series Connector Specification	Date Issued	2022/02/17
	Date Revised	2022/02/17
	Version	A

【1.适用范围 Scope】

此种规格包括 2.54mm Pitch Series 排针连接器规格说明.

This Specification Covers the 2.54mm Pitch Series Pin Header 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
排针 / Pin header	2544WR-04P-LPSW1BR-04	

【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
排针 Pin Header	Base	LCP	UL 94V-0
	PIN	黄铜 (C2680) /Brass	Nickel Plated: 50u" Min (1.2µm Min) Tin Plated: 100u" Min(2.5µm Min)

(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.)	5A	
使用温度范围 Ambient temperature Range	-40°C~+105°C	

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

Product Specification [产品规格书]:	Document No	PS-2544-03
Subject [主题]: 2.54mm Pitch Series Connector Specification	Date Issued	2022/02/17
	Date Revised	2022/02/17
	Version	A

【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	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).	Initial: 20 milliohms Max. After Test: 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)	1000 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 1000V 的交流电 1 分钟,检测连接器. Mate connectors, apply 1000V 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

Product Specification [产品规格书]:	Document No	PS-2544-03
	Date Issued	2022/02/17
	Date Revised	2022/02/17
	Version	A
Subject [主题]: 2.54mm Pitch Series Connector Specification		

5-2. 机械的性能 Mechanical Performance.

项 目 【Item】	条 件 【Test Condition】	规 格 【Requirement】
5-2-1 Pin 针保持力 Pin Retention Force	以每分 25.4±3mm 的速率,将 PIN 针从胶壳内轴向上拔出的力量. At the rate of 25.4±3mm per minute, the force to pull the PIN PIN from the inner axis of the rubber shell upward	0.8Kgf Min/PIN

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 30 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 temperature rise. (EIA364-70,Method 1)	温升测试 Temperature rise 30°C Max.

Product Specification [产品规格书]:	Document No	PS-2544-03
Subject [主题]: 2.54mm Pitch Series Connector Specification	Date Issued	2022/02/17
	Date Revised	2022/02/17
	Version	A

项 目 【Item】		条 件 【Test Condition】	规 格 【Requirement】	
5-3-3	振动测试 Vibration test	振幅: 1.5mm P-P 时间: 20~200~20 Hz in 3minute 持续时间: 每轴向 3 小时 加速度: 44m/S ² 开放电压: 20mV 以下 开放电流: 10mA 以下 Amplitude: 1.5mm P-P Sweep time: 20~200~20 Hz in 3 minute Duration: 3 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	30 milliohms Max.
			瞬断 Discontinuity	1 micro-second Max.
5-3-4	冲击测试 Shock test	在 X.Y.Z 上 6 个方向上,以 490m/s ² (50g 的力量)冲击下各 3 回,490m/s ² {50G}, 3 strokes in each X.Y.Z. axes. (Based upon EIA-364-27B/MIL-STD-202 Method 213B Cond.A)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	30 milliohms Max.
			瞬断 Discontinuity	1 micro-second Max.
5-3-5	耐热性 Heat Resistance	105±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	30 milliohms Max.
5-3-6	耐寒性 Cold Resistance	-40±5°C,96 hours. (Based upon EIA-364-105)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	30 milliohms Max.
5-3-7	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	30 milliohms Max.
			耐电压 Dielectric Strength	Must meet 5-1-3
			绝缘阻抗 Insulation Resistance	500 Megohms Min.

Product Specification [产品规格书]:	Document No	PS-2544-03
Subject [主题]: 2.54mm Pitch Series Connector Specification	Date Issued	2022/02/17
	Date Revised	2022/02/17
	Version	A

项 目 【Item】		条 件 【Test Condition】	规 格 【Requirement】	
5-3-8	温度变化 Temperature Cycling	从-40°C持续 30 分钟升至+105°C持续 30 分钟,循环 5 次. 5 cycles of: a) -40°C 30 minutes. b) +105°C 30 minutes. (Based upon EIA-364-32B)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	30 milliohms Max.
5-3-9	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-364-26B/MIL-STD-202 Method 101D Cond.B).	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	30 milliohms Max.

Product Specification [产品规格书]:	Document No	PS-2544-05
Subject [主题]: 2.54mm Pitch Series Connector Specification	Date Issued	2022/02/17
	Date Revised	2022/02/17
	Version	A

This specification is referred to the 2.54mm series Female Header 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】

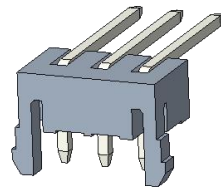
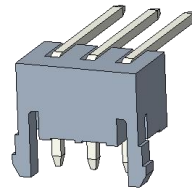
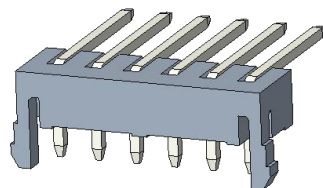
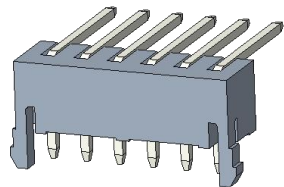
Product Specification [产品规格书]:	Document No	PS-2544-05
Subject [主题]: 2.54mm Pitch Series Connector Specification	Date Issued	2022/02/17
	Date Revised	2022/02/17
	Version	A

【1.适用范围 Scope】

此种规格包括 2.54mm Pitch Series 排针连接器规格说明。

This Specification Covers the 2.54mm Pitch Series Pin Header 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
排针 / Pin header	2544WR-03P-LPSW1BR	
	2544WR-03PA-LPSW1BR	
	2544WR-06P-LPSW1BR1	
	2544WR-06PA-LPSW1BR	

【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
排针 Pin Header	Base	LCP	UL 94V-0
	PIN	黄铜 (C2680) /Brass	Nickel Plated: 50u" Min (1.2µm Min) Tin Plated: 100u" Min (2.5µm Min)

(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】

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	Date Revised	2022/02/17
	Version	A

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	-40°C~+105°C	

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

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Subject [主题]: 2.54mm Pitch Series Connector Specification	Date Issued	2022/02/17
	Date Revised	2022/02/17
	Version	A

【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	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).	Initial: 20 milliohms Max. After Test: 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)	1000 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 1000V 的交流电 1 分钟,检测连接器. Mate connectors, apply 1000V 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

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	Date Issued	2022/02/17
	Date Revised	2022/02/17
	Version	A
Subject [主题]: 2.54mm Pitch Series Connector Specification		

5-2. 机械的性能 Mechanical Performance.

项 目 【Item】	条 件 【Test Condition】	规 格 【Requirement】
5-2-1 Pin 针保持力 Pin Retention Force	以每分 25.4±3mm 的速率,将 PIN 针从胶壳内轴向上拔出的力量. At the rate of 25.4±3mm per minute, the force to pull the PIN PIN from the inner axis of the rubber shell upward	0.8Kgf Min/PIN

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 30 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 temperature rise. (EIA364-70,Method 1)	温升测试 Temperature rise 30°C Max.

Product Specification [产品规格书]:	Document No	PS-2544-05
Subject [主题]: 2.54mm Pitch Series Connector Specification	Date Issued	2022/02/17
	Date Revised	2022/02/17
	Version	A

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5-3-3	振动测试 Vibration test	振幅: 1.5mm P-P 时间: 20~200~20 Hz in 3minute 持续时间: 每轴向 3 小时 加速度: 44m/S ² 开放电压: 20mV 以下 开放电流: 10mA 以下 Amplitude: 1.5mm P-P Sweep time: 20~200~20 Hz in 3 minute Duration: 3 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	30 milliohms Max.
			瞬断 Discontinuity	1 micro-second Max.
5-3-4	冲击测试 Shock test	在 X.Y.Z 上 6 个方向上,以 490m/s ² (50g 的力量)冲击下各 3 回,490m/s ² {50G}, 3 strokes in each X.Y.Z. axes. (Based upon EIA-364-27B/MIL-STD-202 Method 213B Cond.A)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	30 milliohms Max.
			瞬断 Discontinuity	1 micro-second Max.
5-3-5	耐热性 Heat Resistance	105±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	30 milliohms Max.
5-3-6	耐寒性 Cold Resistance	-40±5°C,96 hours. (Based upon EIA-364-105)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	30 milliohms Max.
5-3-7	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	30 milliohms Max.
			耐电压 Dielectric Strength	Must meet 5-1-3
			绝缘阻抗 Insulation Resistance	500 Megohms Min.

项 目 【Item】	条 件 【Test Condition】	规 格 【Requirement】
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Subject [主题]: 2.54mm Pitch Series Connector Specification			Date Issued	2022/02/17
			Date Revised	2022/02/17
			Version	A
5-3-8	温度变化 Temperature Cycling	从-40°C持续 30 分钟升至+105°C持续 30 分钟,循环 5 次. 5 cycles of: a) -40°C 30 minutes. b) +105°C 30 minutes. (Based upon EIA-364-32B)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	30 milliohms Max.
5-3-9	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-364-26B/MIL-STD-202 Method 101D Cond.B).	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	30 milliohms Max.