

Product Specification 【产品规格书】	Document No.	PS-2573-01
Product Name 【产品名称】： 2.54mm Pitch 2573 Series Connector	Date Issued	2023/07/19
	Date Revised	
	Version	A

This specification is only referred to the 2573 series connector

### 索引 【INDEX】

1. 适用范围 【Scope】
2. 产品型号描述 【Product Description】
3. 材质与表面处理 【Material and Surface treatment】
4. 额定等级 【Ratings and applicable wires】
5. 测试方法及要求 【Test Methods and Requirements】
  - 5-1. 电气性能 【Electrical Performance.】
  - 5-2. 机械性能 【Mechanical Performance】
  - 5-3. 环境性能及特殊要求 【Environmental Performance and Special Requirments】
6. SMT 回流条件 【SMT Reflow condition】

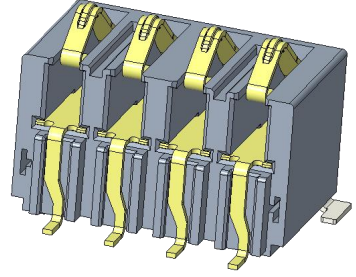
Product Specification 【产品规格书】	Document No.	PS-2573-01
Product Name 【产品名称】： 2.54mm Pitch 2573 Series Connector	Date Issued	2023/07/19
	Date Revised	
	Version	A

### 【1.适用范围 Scope】

此规格包括 2.54mm Pitch 2573 Series 连接器规格说明.

This Specification includes the 2.54mm Pitch 2573 Series Connector Specification.

### 【2.产品型号描述 Product Description】

产品名称 Part Name	产品料号 Part No.	产品图示 Picture
连接器	2573WRS-04-LPSR2BC	

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

规格内容 Specification	材质 Materials	颜色/表面处理 Color/Surface treatment
连接器 connector	Housing	LCP 黑色 Black
	Pin	磷铜/Phosphor Bronze Ni 20~80u"(0.50~2um) overall contact area Gold flash Other area Tin Plating: 32~100u"(0.8~2.5um)
	Solder tab	黄铜/Brass Under plate:Ni 50~100u"(1.25~2.5um)overall Top planting:Sn 100~180u"(2.5~4.5um)overall

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

Product Specification 【产品规格书】	Document No.	PS-2573-01
Product Name 【产品名称】： 2.54mm Pitch 2573 Series Connector	Date Issued	2023/07/19
	Date Revised	
	Version	A

**【4. 额定等级 Ratings and applicable wires】**

项目 Item	规格 Specification	
额定电压 Rated Voltage	5V Max	[AC/DC]
额定电流 Rated Current	2.6A Max	
使用温度范围 Ambient Temperature Range	-40°C ~ +105°C	
适用线径 Applicable wire insulation O.D	/	

Product Specification 【产品规格书】	Document No.	PS-2573-01
Product Name 【产品名称】： 2.54mm Pitch 2573 Series Connector	Date Issued	2023/07/19
	Date Revised	
	Version	A

## 【5.测试方法及要求 Test Methods and Requirements】

### 5-1. 电气性能 Electrical Performance.

项 目 【Item】	条 件 【Test Condition】	规 格 【Requirement】
5-1-1 耐电压 Withstanding Voltage	EIA-364-20 , (No Flashover, parkover, or Breakdown)	800V AC
5-1-2 绝缘电阻 Insulation Resistance	EIA-364-21	Insulation resistance >5000 MΩ
5-1-3 接触阻抗 Contact Resistance	EIA-364-23	Contact Resistance <15 mΩ
5-1-4 温升测试 Temperature Rise	EIA364-70	30°C Max (PER PIN )

Product Specification 【产品规格书】	Document No.	PS-2573-01
Product Name 【产品名称】： 2.54mm Pitch 2573 Series Connector	Date Issued	2023/07/19
	Date Revised	
	Version	A

## 5-2. 机械性能 Mechanical Performance.

测试内容 Item		规格要求 Specification requirements	参考标准 Reference standard
5-2-1	耐久性 Durability	EIA-364-09C Press down 100 times, press stroke 1.00mm 	Contact Resistance < 15 mΩ
5-2-2	随机振动 Random Vibration	EIA-364-28 Condition V, Letter B 7.56 G 'RMS', 50 to 2000 Hz, 2 hours per axis, 3 axis total, PSD 0.04	Visual Inspection: No Damage Contact Resistance < 15 mΩ Discontinuity: 1 micro-second Max.
5-2-3	机械冲击 Mechanical Shock	EIA-364-27 100 G, 60th wave, 11.3 fps, 3 shocks/direction, 3 axis (18 total shocks)	Visual Inspection: No Damage Contact Resistance < 15 mΩ Discontinuity: 1 micro-second Max.
5-2-4	法向力 Normal Force	EIA-364-04 	30 grams minimum for gold interface

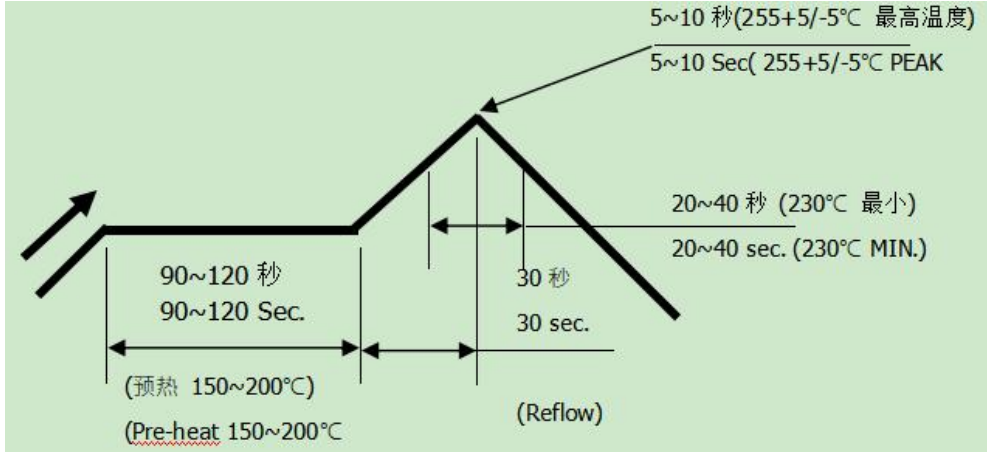
Product Specification 【产品规格书】	Document No.	PS-2573-01
Product Name 【产品名称】： 2.54mm Pitch 2573 Series Connector	Date Issued	2023/07/19
	Date Revised	
	Version	A

### 5-3. 环境性能及特殊要求 Environmental Performance and Special Requirments.

测试内容 Item		规格要求 Specification requirements	参考标准 Reference standard
5.3.1	热冲击 Thermal Shock	EIA-364-32 Thermal Cycles: 100 (30 minute dwell) Hot Temp: 85°C Cold Temp: -55°C Hot/Cold Transition: Immediate	Visual Inspection: No Damage Contact Resistance < 15 mΩ Insulation resistance > 5000 MΩ Withstanding Voltage : 800V
5.3.2	热老化 Thermal Aging (Temp Life)	EIA-364-17 Test Condition 4 @ 1os c Condition B for 250 hours	Visual Inspection: No Damage Contact Resistance < 15 mΩ Insulation resistance > 5000 MΩ Withstanding Voltage : 800V
5.3.3	湿度循环 Cyclic Humidity	EIA-364-3 1 Test Temp: 25 to 65°C Relative Humidity: 90 to 95% Test Duration: 240 hours	Visual Inspection: No Damage Contact Resistance < 15 mΩ Insulation resistance > 5000 MΩ Withstanding Voltage : 800V
5.3.4	焊锡耐热性 Resistance to Soldering Heat	EIA-364-56 Soldering time: 5~10 sec solder. Temperature: 255+5/-5°C.	Visual Inspection: No Damage

Product Specification 【产品规格书】	Document No.	PS-2573-01
Product Name 【产品名称】： 2.54mm Pitch 2573 Series Connector	Date Issued	2023/07/19
	Date Revised	
	Version	A

【6. SMT 回流条件 SMT REFLOW CONDITION】



温度条件曲线图/ 基板上温度

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.