



CUSTOMER NAME	客户名称:	
CUSTOMER NO.	客户编号:	
SERIES	系 列:	0.8间距 排母连接器
MODEL NO.	型 号:	
DRAWING NO.	图 形 号:	0.8 spacing row female connector

依据和存档之用，多谢合作！

<b>APPROVE 接受</b>	<b>NOT APPROVE 不接受</b>
          <b>SIGNATURE 签署      STAMP 盖章      DATE 日期</b>	

PREPARED BY.制表人	CHECKED BY.校对	APPROVED BY.审核	APPROVAL BY. 批准
<div>研发部</div> <div>戴海明</div> <div>2022. 06. 08</div>	<div>品质部</div> <div>黄自清</div> <div>2022. 06. 08</div>	<div>工程部</div> <div>庞军</div> <div>2022. 06. 08</div>	<div>总经办</div> <div>吴量</div> <div>2022. 06. 08</div>

MAiL : HK@ALPSR. CN      XB@ALPSR. CN  
Quality core! Afterburner for Made in China!



# 东莞市溪榜电子有限公司

DONG GUAN XI BANG ELECTRONICS CO., LTD.

## SPECIFICATION AND PERFORMANCE

Series	123A-58X01	File	123A-58X01_SPEC_1	Date	2021/06/08
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### Scope:

This specification covers the requirements for product performance, test methods and quality assurance provisions of below

P/N	Description
123A-58B01	M.2 Socket, H5.8 B Key 0.5 Pitch G/F, Black, Reel
123A-58E01	M.2 Socket, H5.8 E Key 0.5 Pitch G/F, Black, Reel
123A-58M01	M.2 Socket, H5.8 M Key 0.5 Pitch G/F, Black, Reel

### Performance and Descriptions:

The product is designed to meet the electrical, mechanical and environmental performance requirements specification. Unless otherwise specified, all tests are performed at ambient environmental conditions.

### RoHS:

All material in according with the RoHS environment related substances list controlled.

## MATERIALS

NO.	PART NAME	DESCRIPTION
1	Housing	LCP E6808, UL94V-0, Black
2	Contact	Phosphor Bronze C5210, gold flash plating on contact & solder area, 50u" min. nickel under-plating over all
3	Hold down	Brass C2680, 50u"min. matte tin plating under 50u" min. nickel plating

## RATING

Rated Voltage	50VAC
Rated Current	0.5A
Operating Temperature	-40°C TO +85°C
Storage Temperature	-40°C TO +85°C
Durability	60 CYCLES

## ELECTRICAL

Item	Requirement	Test Condition
Contact Resistance	55mΩ max.(initial), Δ20mΩ (finish)	Subject mated contacts assembled in housing to closed circuit current of 100mA (max) at open circuit voltage of 20mV voltage (max.) EIA 364-23
Insulation Resistance	500MΩ min.	Measure by applying 500VDC for 2 minutes between adjacent contacts of



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		unmated connector. EIA-364-21
Withstanding Voltage	No Breakdown	Apply 300VAC for 1 minute between adjacent contacts of unmated connector. EIA-364-20

MECHANICAL		
Item	Requirement	Test Condition
Mating Force/ Unmating Force	2.04Kgf(20N) Max.	Measure the force required to mate/unmate connector, operation Speed: 25.4mm/min. EIA-364-13
Durability	No evidence of physical damage Contact resistance $\Delta 20\text{m}\Omega$ max.	Connector shall be subjected to 60 cycles of insertion and withdrawal. Manual insertion/ withdrawal speed rate: 250cycles/hours EIA-364-09
Vibration	Appearance: no damage Discontinuity: 1 $\mu\text{sec}$ Max.	15 Minutes in each of 3 mutually perpendicular Direction both mating halves should be rigidly fixed so as not to contribute to the relative motion of one contact against another. EIA-364-28 Test condition VII test condition letter D
Physical Shock	Appearance: no damage Discontinuity: 1 $\mu\text{sec}$ Max.	Acceleration: 285G Time: 2ms (half sine wave) Cycles: 3 drops each to normal and reversed directions of X,Y,Z axes, total 18 drops. (EIA-364-27)

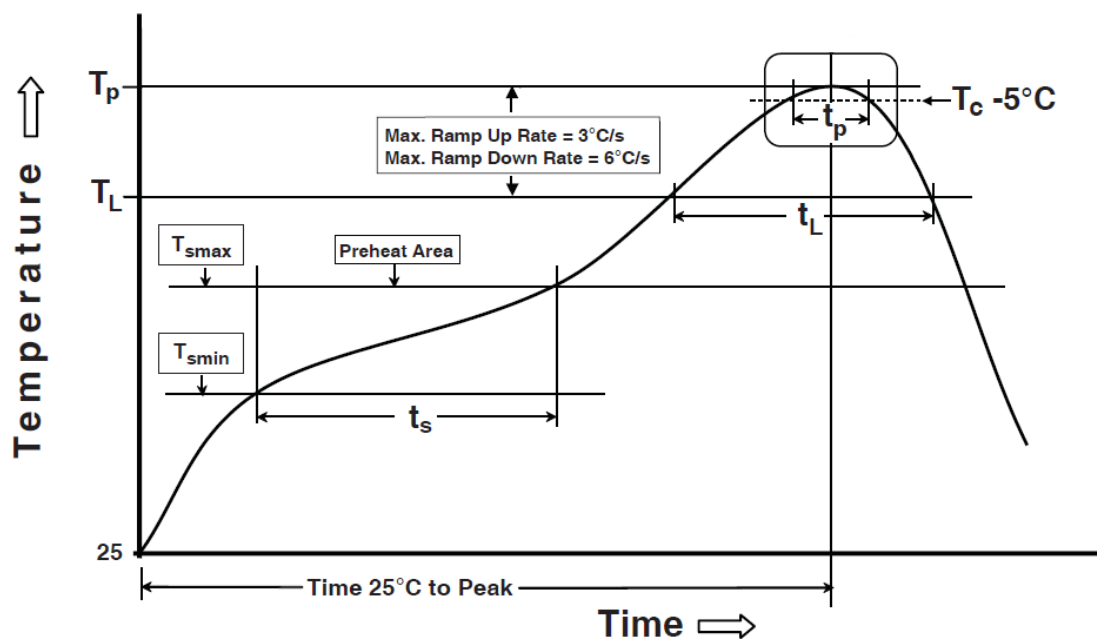
ENVIRONMENTAL		
Item	Requirement	Test Condition
Solder ability	95% min. of solder area 10x the magnifying glass of view	Soldering time : 4~5 second Solder Temperature: 245 $\pm$ 5 $^{\circ}\text{C}$ (EIA-364-52)
Thermal Shock	Contact resistance $\Delta 20\text{m}\Omega$ max.	Mated Connectors -55 $\pm$ 3 $^{\circ}\text{C}$ (30 min.), +85 $\pm$ 2 $^{\circ}\text{C}$ (30 min.) Perform this cycle, repeat 10 cycles (EIA-364-32 condition I)
Temperature Life	Contact resistance $\Delta 20\text{m}\Omega$ max.	Mated Connector 105 $^{\circ}\text{C}$ , 96 hours, (EIA-364-17 test condition IV.)
Humidity	Contact resistance $\Delta 20\text{m}\Omega$ max.	Subject mated Connectors to 96 hours at 40 $^{\circ}\text{C}$ with 90~95% RH. (EIA-364-31 Method II Test Condition A.)
Salt Spray	No detrimental corrosion allowed in contact area and base metal	Subject mated connectors to 35 $\pm$ 2 $^{\circ}\text{C}$ and



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	exposed	5+/-1% salt condition for 48hours. After test, rinse the sample with water and recondition the room temperature for 1 hour. (EIA-364-26)
Mixed flowing gas	Contact Resistance $\Delta R=20\text{ m}\Omega$ Max. (Final)	Mated connectors, Duration: 120 hours (EIA-364-65, class IIA)
Resistance to Reflow Soldering Heat	No physical damage shall occur. Test Initial and final, coplanarity of product shall meet requirements of applicable product drawing and specification.	Test connector on PCB Pre-heat: $150\sim 180^{\circ}\text{C}$ , $90\pm 30\text{sec}$ . Solder heat: $230^{\circ}\text{C}$ Min, $30\pm 10\text{sec}$ . Peak temp: $260^{\circ}\text{C}$ Max. 3~5sec.



Preheating temperature:  $150 \sim 180^{\circ}\text{C}$ ,  $90\pm 30$  seconds

Liquidus temperature ( $T_L$ ):  $230^{\circ}\text{C}$ ,  $30\pm 10$  seconds

Peak temperature:  $260^{\circ}\text{C}$

Time within  $5^{\circ}\text{C}$  of peak temperature ( $T_c$ ):  $255^{\circ}\text{C}$ , 30seconds