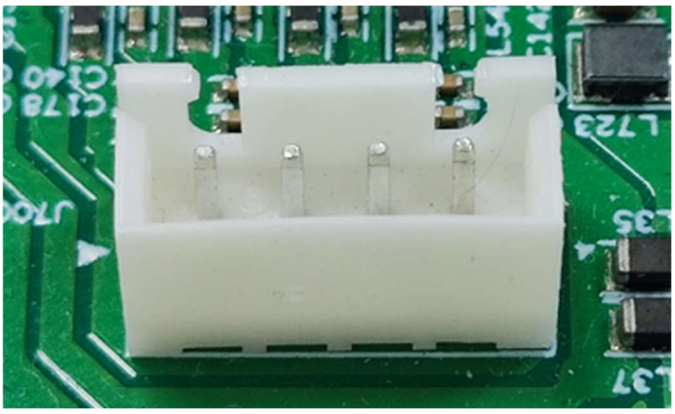
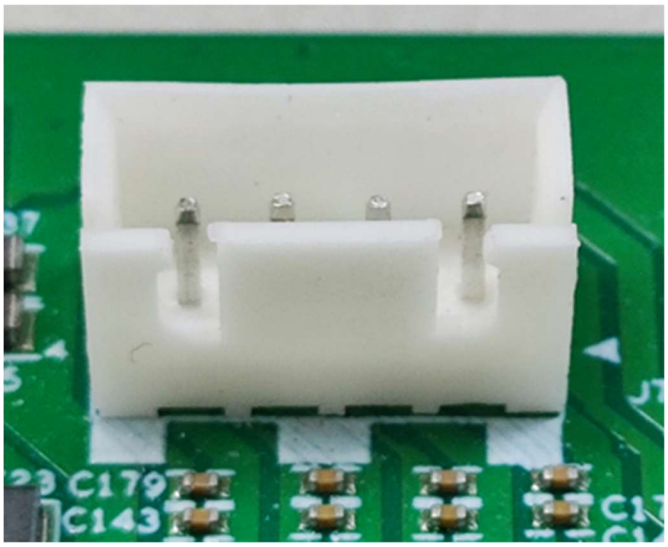




設計驗證
工程課
2025 -04- 28
發行

乔讯电子（上海）有限公司
Chyao Shiunn Electronics(Shang Hai) Co.,Ltd.

Specification For Approval

Customer	钰纬
Part No.	JS-1001S-04(CM)
Customer Part No.	3FM00417120 (F0316)
Description	2.5mm pitch Conector
Samples	5 PCS

設計驗證
工程課
2025 -04- 28
發行
鈺緯科技開發股份有限公司

This Specification Is

Prepared By	Checked By	Approved By
Li Lian	Tang Nian	Tang Nian
Ini. Date	Rev. Date	Revision
2024.12.06	2024.12.06	A

Address: Unit B,1/F, Block 46,No,299,Fu Te Chung Road Waigaoqiao Free Trade Zone,ShangHai China

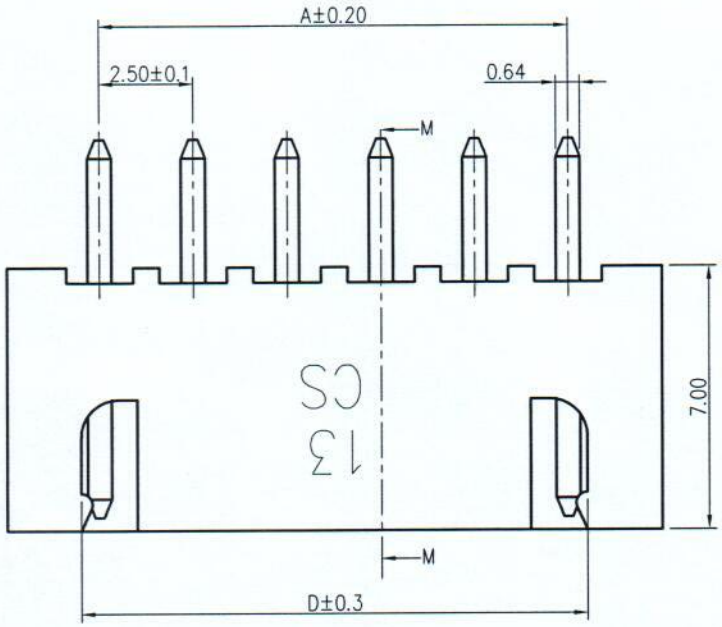
上海市外高桥保税区富特中路299号46号厂房

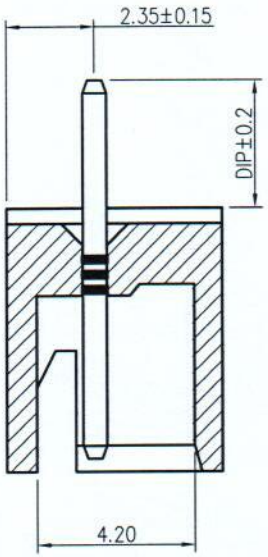
TEL: (86-21)-5046-1169,5046-1680 FAX:(86-21)5046-1063,5046-3014

E-mail:cssh@cssh.net.cn

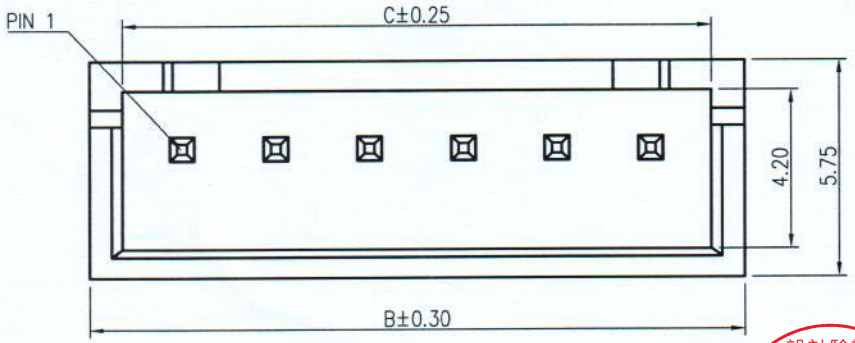
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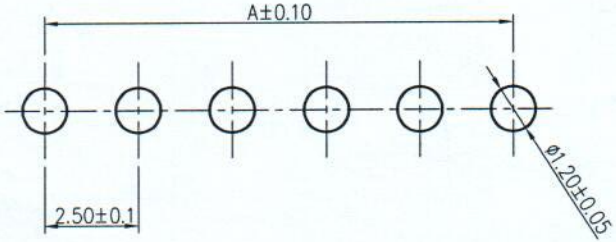
REV.	ECN.NO	REVISIONS	REV.DRAWN	DATE
D	09130	换图框，增加无卤料号。	hejihuai	2009/07/08
E	12010	增加D尺寸标注	Asimo	2012/03/01
F	15109	图面整合	sunquan	2015/12/16
G	---	图面整合	YangSong	2017/07/19
H	---	新增料號	YangSong	2017/11/20





SECTION M-M





Recommended PCB Layout

SPECIFICATION
. Voltage Rating : 250V AC/DC
. Current Rating : 3A AC/DC
. Withstanding Voltage : 1000V AC/Minute
. Insulation Resistance : 1000MΩ Min.
. Temperature Range : -25℃~+85℃
. Contact Resistance : 20mΩ Max.

NOTES:
1. Material: Base: Nylon, UL94V-0
Contact: Copper Alloy
2. Q'ty : 1,000 Pcs/Bag
3. Part No.
JS-1001S-XXXXX-XXXX-XX

- Poles : 2~20
- Blank: Dip 3.4
- C: Dip 2.3
- E: Dip 1.5
- Blank : Tin plated
- (M)or(NM) : Matte Sn
- G0 : Gold Plated
- Blank : PA66
- D1 : PA66+15%GF
- A0 : PA46
- Blank : Normal
- NH : Halogen free
- Blank : Nature
- BK : Black
- BU : Blue
- GY : Gray
- RD : Red
- YW : Yellow

4. Halogen free product identification LOGO on the packing

出图 2017.11.20 工程部

設計驗證 工程課 2025-04-28 發行 益壽科技開發股份有限公司

Poles	A	B	C	D	Poles	A	B	C	D
					11	25.00	30.00	28.40	26.15
02	2.50	7.50	5.90	3.65	12	27.50	32.50	30.90	28.65
03	5.00	10.00	8.40	6.15	13	30.00	35.00	33.40	31.15
04	7.50	12.50	10.90	8.65	14	32.50	37.50	35.90	33.65
05	10.00	15.00	13.40	11.15	15	35.00	40.00	38.40	36.15
06	12.50	17.50	15.90	13.65	16	37.50	42.50	40.90	38.65
07	15.00	20.00	18.40	16.15	17	40.00	45.00	43.40	41.15
08	17.50	22.50	20.90	18.65	18	42.50	47.50	45.90	43.65
09	20.00	25.00	23.40	21.15	19	45.00	50.00	48.40	46.15
10	22.50	27.50	25.90	23.65	20	47.50	52.50	50.90	48.65

X. ±0.40	X.' ±5.0'	UNITS mm	NAME(INTENDED USE) CUSTOMER
.X ±0.30	.X' ±2.0'	MAT'S SEE NOTE	PART NO.(INTENDED USE) JS-1001S-XX
.XX ±0.20	.XX' ±1.0'	FINISH SEE NOTE	APPV'D
.XXX ±0.10	--- --	Q'TY -----	CHK'D
			DR': hejihuai 2009/07/08

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乔讯电子(上海)有限公司 CHYAO SHUNN ELECTRONICS(SHANGHAI)CO.,LTD.

TITLE: 2.5mm Crimp Style Connectors

DWG NO. 020-0055-1001S-XX

SCALE	SHEET	REV
5 : 1	1/1	H

符合环境管理物质

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7FL., NO.17, LANE 3, SEC.1 CHUNG CHENG EAST RD.,
TAMSHUI, TAIPEI, TAIWAN, R.O.C.
TEL: 886-2-2629-9955 (REP) FAX: 886-2-2626-6677
http://www.chyaoshiunn.com.tw E-mail:cs@chyaoshiunn.com.tw

Type Document	Product Specification	Revised / Edition	N
Date Issued	1998/12/01	Data Revised	2022/01/15
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. This specification is referred to the 2.50mm DIP series wire to board connector.

-INDEX-

1.0 Product Name/Part Number & Drawing Number. (产品名称 / 产品型号及图面型号)

2.0 Construction/Dimensions/Material & Surface Finish. (材质以及表面镀层)

3.0 Characteristic. (产品特性)

4.0 Specimen. (样本图标)

5.0 Applicable Standards. .(适用规范)

6.0 Mechanical Performance. (机械性能)

7.0 Electrical Performance. (电气性能)

8.0 Environmental Performance. (环境性能)

9.0 Insertion Force & Retention Force Requirement. (插入力和保持力要求)

10.0 Remark. (备注).



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1.0 Product Name/Part Number & Drawing Number(产品名称 / 产品型号及图面型号):

Product Name (产品名称)		Part Number (零件型号)	Drawing Number (图面型号)
Crimp Terminal		JS-2001-T/TE (Stamping after tin plated) (先镀后冲)	JS-2001-T/TE
		JS-2001-TB (Stamping after tin plated) (先镀后冲)	JS-2001-TB
Housing		JS-2001-XX	JS-2001-XX
Wafer	Straight	JS-1001-XX/ XXK	JS-1001-XX/ XXK
		JS-1001S-XX/ XXK ; JS-1001SB1-XXK	JS-1001S-XX/ XXK JS-1001SB1-XXK
		JS-1001S-XX/ XXK-HK; JS-1001SB1-XXK-HK	JS-1001S-XX/ XXK-HK JS-1001SB1-XXK-HK
	Right Angle	JS-1001R-XX/ XXK	JS-1001R-XX/ XXK
		JS-1001R-XX/XXK-HK	JS-1001R-XX/XXK -HK
		JS-1001H-XX	JS-1001H-XX

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2.0 Construction/Dimensions/Material & Surface Finish(材质以及表面镀层):

Part Name(零件名称)		Material(材质)	Surface Finish (表面镀层)
Crimp Terminal	JS-2001-T/TE	Phosphor Bronze(磷铜)	Tin-Plated (镀亮锡)
	JS-2001-TB	Brass	Tin-Plated (镀亮锡)
Housing		Nylon 66	UL 94V-0
Wafer	Square pin	Brass (黄铜)	Tin or Matte-Tin Plated(镀亮锡或镀雾锡)
	Base	Nylon 66 & Nylon 46	UL 94V-0

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ISO 9002

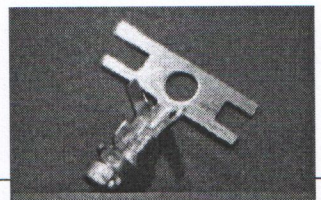
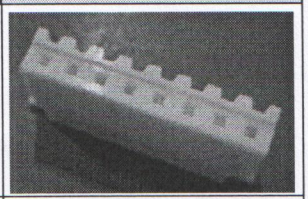
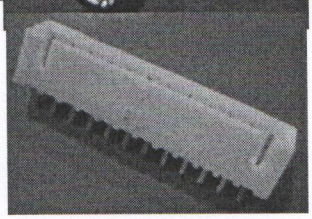
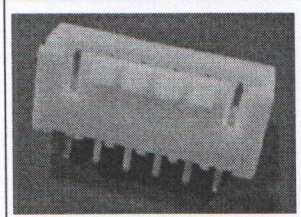
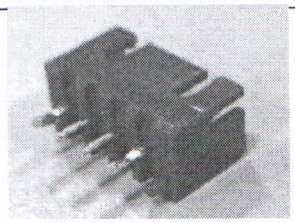
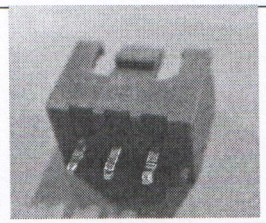
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3.0 Characteristic（产品特性）:

Item(项目)			Standard
3.1	Rated Current（额定电流）		3A AC/DC (With AWG #24 is applied)
3.2	Ambient Temperature Range （环境温度范围）		Operating Temp.: -25℃~+85℃ （工作温度:-25℃~+85℃） Including 30℃ Terminal Temperature Rise at rated Current .（包括额定电流时 30℃的终端温升。） Storage temp.: -25℃~+85℃ （存储温度：-25℃~+85℃）
3.3	Applicable Wire （适用电线）	3.3.1	Conductor Construction Size（导线结构尺寸）: AWG #22~#28
		3.3.2	Wire Insulation O.D.（电线绝缘外径）: 1.2mm~1.6mm
3.4	Applicable Printed Circuit Board Layout （ 适用印刷电路板布局）	3.4.1	Thickness: 0.8 mm ~ 1.6 mm
		3.4.2	Hole Size: 1.2±0.05 mm
		3.4.3	Hole Pitch: 2.50 ± 0.05 mm

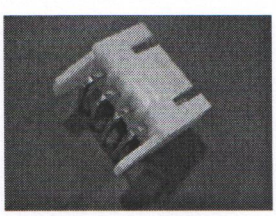
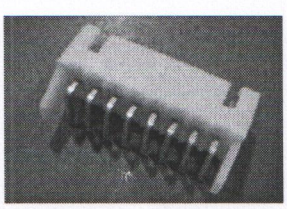
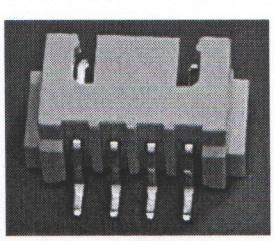
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2022-01-20
工程部

4.0 Specimen(样本图标):

Part Name/ Part Number/ Picture or Photograph			
Crimp Terminal JS-2001-T/TB/TE		Housing JS-2001	
Wafer Straight JS-1001&JS-1001S		Wafer Straight JS-1001/HK JS-1001S/HK	
Wafer Straight JS-1001SB1-XXK		Wafer Straight JS-1001SB1-XXK-HK	

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Wafer Right Angle JS-1001R/HK		Wafer Right Angle JS-1001R	
Wafer Right Angle JS-1001H-XX			

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2022-01-20
工程部

5.0 Applicable Standards(适用规范):

MIL-STD-202 Methods by test of connectors for electronic equipment.
(MIL-STD-202 电子设备连接器试验方法)

EIA 364 Testing method for electrical connectors.
(EIA-364 电连接器试验方法。)

6.0 Mechanical Performance(机械性能):

Item(项目)		Test Condition (测试条件)		Requirement (要求)
6.1	Insertion & Retention Force (插入力和保持力)	Insert and withdraw with connectors at the speed rate of 25±6 mm/minute. (EIA 364-13) (以 25 毫米/分钟的速度插入和取出 Housing)		Refer to paragraph 9.1 (参考第 9.1 段)
6.2	Wire Pullout Force(Axial) (线缆拔出力(轴向))	Pull out the cable from contact terminal at the speed rate of 25± 6 mm/minute. (以 25±6 mm/min 的速度从接触端子上拔出电缆。)	AWG#22 size wire	5.0kgf/Min.
			AWG#24 size wire	3.0kgf/Min.
			AWG#26 size wire	2.0kgf/Min.
			AWG#28 size wire	1.3kgf/Min.

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Item(项目)		Test Condition（测试条件）	Requirement（要求）
6.3	Crimp Terminal Retention Force (in Housing) （压接端子保持力）	Axial pullout force on the terminal in the housing at the speed rate of 25 ± 6 mm per minute. （以 25±6 mm/min 的速度施加在外壳端子上的轴向拔出力。）	Per Contact 2.5kgf/Min.
6.4	Square Pin Retention Force (in Base) （ 方Pin保持力）	Axial pullout force on the square pin in the base at the speed rate of 25 ± 6 mm per minute. (EIA 364-29C) （以 25±6 mm/min 的速度施加在塑壳方针上的轴向拔出力。）	Per Contact 2.0kgf/Min. After Soldering Heat Per Contact 0.7kgf/Min

7.0 Electrical Performance(电气性能):

Item(项目)		Test Condition（测试条件）	Requirement（要求）
7.1	Contact Resistance （接触阻抗）	A maximum voltage of 20mV and a maximum current of 10mA are applied to the Mate connectors. (EIA 364-23) （让其通过 10mA /20mV Max 电流）	Contact Resistance: 20 milliohms Max. （接触电阻：最大 20mΩ）
7.2	Current Continuity （电流连续性）	Each circuit of the connector shall be connected in series continuity meter shall detect current discontinuity longer than 1 microsecond during the vibration test. （连接器的每个电路应串联连接，连续性计应在振动试验期间检测超过 1 微秒的电流不连续性。）	No discontinuity current is longer than 1 microsecond. （回路瞬间断电不能超过1微秒）

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Item(项目)		Test Condition（测试条件）	Requirement（要求）
7.3	Insulation Resistance （绝缘阻抗）	Apply 500V D/C to any two adjacent contacts to measure the insulation resistance. (EIA 364-21) （试验电压 500V D/C，施加于相邻两端，测量绝缘电阻）	Insulation Resistance: Initial 1000 megohms Min. （绝缘电阻：初始 1000 兆欧（最小值））
7.4	Withstanding Voltage （耐电压）	Apply 1000V A/C (rms) for 1 minute and the leakage current shall not excced 0.5mA to the adjacent terminal and ground of the Mate connectors. (EIA 364-20) （施加 1000V A/C（rms）1 分钟，泄漏电流不得超过 0.5mA 至配对连接器的相邻端子和接地。）	No breakdown or flashover. （无击穿或者火花）

8.0 Environmental Performance(环境性能):

Item(项目)		Test Condition（测试条件）	Requirement（要求）
8.1	Vibration （振动）	Frequency: 10~55~10 Hz/minute. Amplitude: 1.5 mm P-P. Direction: 1. Axis of up and down. 2. Axis of right the left. 3. Axis of front and back. Period: 2 hours for each direction. (EIA 364-28A-23) （频率：10 ~ 55 ~ 10 Hz /分钟。 振幅：1.5 毫米。 方向：1. 上下轴。 2. 从左到右的轴。 3. 前后轴。 周期：每个方向 2 小时。）	Initial Contact Resistance : 20 milliohms Max. (After the test) Contact Resistance: 40 milliohms Max. （振动前测试，最大接触阻抗20 mΩ 振动后测试，最大接触阻抗 40 mΩ）
			No discontinuity current is longer than 1 microsecond （回路瞬间断电不能超过 1 微秒）

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Subject: JS-1001(1001S 1001R 1001SB1)/ (K)/(HK) 、JS-1001H-XX JS-2001 JS-2001-T/TB/TE Pitch 2.50mm Series Wire to Board Connector			Issued By: Engineering Dept.

Item（项目）		Test Condition（测试条件）	Requirement（要求）
8.2	Humidity Steady State （湿度稳定状态）	Temperature: 40±2℃. Humidity: 90%~95% (RH). Period: 96 hours continuously. (EIA 364-31) （将样品置于恒定湿热箱 温度：40±2℃， 湿度：湿度：90%~95%（相对湿度） 周期：连续 96 小时）	(After the test) Contact Resistance: 40 milliohms Max. （测试之后，最大接触阻抗40 mΩ） (After the test) Insulation Resistance: 500 Megohms Min. （测试之后，最大绝缘阻抗500 MΩ） (After the test) Withstanding Voltage : No breakdown or flashover （测试之后，耐电压：无击穿或者
8.3	Heat Aging （热老化）	Temperature: 85±2℃. Period: 96 hours continuously. (EIA 364-17) 温度：85±2℃。 周期：连续96小时。	(After the test) Contact Resistance: 40 milliohms Max. （测试之后，接触电阻最大 40 mΩ）
8.4	Thermal Shock （冷热冲击）	One Cycle Consists Of: -55 +0/-3℃for 30 minutes. → Room Temp.5 minutes 85+3/-0℃ for 30 minutes. → Room Temp.5 minutes Total Cycles: 25 Cycles. (EIA 364-32) 一个循环包括： -55+0/-3℃30 分钟。→室温 5 分钟 85+3/-0℃30 分钟。→室温 5 分钟 总周期：25 个周期。	Same as paragraph 8.2 （数据和图表8. 2一样）

喬訊电子（上海）有限公司 2022-01-20 工程部

喬訊電子工業股份有限公司
CHYAO SHIUNN ELECTRONIC INDUSTRIAL LTD.
7FL., NO.17, LANE 3, SEC.1 CHUNG CHENG EAST RD.,
TAMSHUI, TAIPEI, TAIWAN, R.O.C.
TEL: 886-2-2629-9955 (REP) FAX: 886-2-2626-6677
http://www.chyaoshiunn.com.tw E-mail:cs@chyaoshiunn.com.tw

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	Item(项目)	Test Condition（测试条件）	Requirement（要求）
8.5	Salt Spray （盐雾）	A mated connector shall be subjected to a Salt Spray test of the following conditions. After the test , the specimen shall be washed with running water and dried naturally before the measurement of contact resistance. Temperature: 35±2℃. Density: 5 % in weight. Period: Terminal (Stamping after tin plated for 8 hours) ; Terminal or contact (Stamping before tin plated for 24 hours) （以组合状态下连接器作为试验样品，依照随附如下规格要求，进行盐水喷雾试验，试验过后将样品用清水冲洗并经过自然风干，而后测量其接触接触阻抗 温度：35±2℃。 密度：重量的 5%。 时间：端子（先镀后冲，8小时）& 端子（先冲后镀，24小时））	(After the test) Contact Resistance: 40 milliohms Max （测试之后，接触电阻最大 40 mΩ）
8.6	Solder Ability （焊锡性）	Solder Temperature: 245 ± 5℃. Immersion Period: 3±0.5 Seconds Method : 1.5mm From Square Pin Tip. (EIA 364-52) （焊接温度：245±5℃。 浸泡时间：3±0.5 秒 方法：距方针尖1.5 mm）	Solder entirely 95% of immersed area must show no voids or pinholes. （焊料浸没区域的 95%不得有空隙或针孔）

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Item(项目)		Test Condition（测试条件）	Requirement（要求）
8.7	Resistance To Soldering Heat （焊锡耐热性）	Resistance to soldering heat when using PA66(G.F.) & PA46: Solder Temperature: 260 ± 5℃. Immersion Period : 3~5±0.5 Seconds (The part can't suitable to pass the IR reflow except JS-1001H-XX) （使用PA66(G.F.) & PA46的耐焊接热性： 焊接温度：260±5℃。 浸泡时间：3~5±0.5秒 （除JS-1001H-XX外，零件不适合通过IR回流焊））	No deformation or damage. （没有变形或损坏。）
		By soldering iron:350 ± 5℃ 3±0.5 Seconds. Method : 1.5mm From Square Pin Tip （通过烙铁：350±5℃ ，3±0.5秒。 方法：距方针端部 1.5mm）	



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9.0 Insertion Force (I.F.) & Retention Force (R.F.)（插入力和保持力要求）

9.1 Requirement（要求）:

No. Of Circuits	AT INITIAL		AT 50TH	No. Of Circuits	AT INITIAL		AT 50TH
	I.F. (MAX)	R.F. (MIN)	R.F. (MIN)		I.F. (MAX)	R.F. (MIN)	R.F. (MIN)
				11	9.0	2.3	2.0
02	3.0	0.7	0.6	12	9.0	2.3	2.0
03	3.5	0.7	0.6	13	9.5	2.7	2.3
04	4.0	1.1	1.0	14	9.5	2.7	2.3
05	4.5	1.1	1.0	15	10.0	3.0	2.6
06	5.5	1.5	1.4	16	10.0	3.0	2.6
07	6.5	1.7	1.6	17	11.0	3.2	2.8
08	7.5	1.7	1.6	18	11.0	3.2	2.8
09	8.0	2.0	1.8	19	12.0	3.3	2.9
10	8.5	2.0	1.8	20	12.0	3.3	2.9

Unit: Kgf

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

（备注：产品规格如有变更或修订，恕不另行通知。有关最新信息，请与我们的销售代表联系。）

