

承认书

SPECIFICATION FOR APPROVAL

Rev.A

FILE NO. AS-FPC311-2S09F19-01

客户名称

CUSTOMER NAME.

客户料号

CUSTOMER PART NO.:

型 号

Model Type:

PITCH0.3 DUAL CONTACT SIDE FPC

制造者系列号

Maker Series No.:

FPC311-2S09Fn-01

制造者料号

Maker Part No.:

FPC311-2S09F19-01

日 期

DATE

2019.05.31

Approved by Customer:



香港春生实业有限公司

浙江春生电子有限公司

中国浙江省乐清市虹桥镇东工业区幸福路1288-5号

No.1288-5,Xinfu Road,East Industrial Zone,Hongqiao

Town,Yueqing City,Zhejiang,P.R.China

TEL:86-577-57578000

FAX:86-577-57575773

E-mail:saler@chunsheng.com

工程 部

Zhejiang Chunsheng Electronics CO.,LTD.

浙江春生电子有限公司



Specifications

Model Type:	PITCH0.3 DUAL CONTACT SIDE FPC	Designed	Checked	Approved
Maker Series No.:	FPC311-2S09Fn-01	Linda.Chen	Paul.Wei	Paul.Wei
Maker Part No.:	FPC311-2S09F19-01			
Customer Ref.:				

1. SCOPE

This specification covers the 0.3mm Pitch FPC/PFC Connectors series.

2. RATINGS AND APPLICABLE WIRES

Rated Current :0.2A

Rated Voltage: 30V AC/DC

Operating Temperature : -40℃~+ 85℃

3. PERFORMANCE

3-1 ELECTRICAL PERFORMANCE

Item		Test Condition	Requirement
3-1-1	Contact Resistance	Mate applicable FPC/FFC and measure by dry circuit,20mV MAX., 1mA Max.	100mΩ Max.
3-1-2	Insulation Resistance	Mate applicable FPC/FFC and apply 100V DC between adjacent terminals or ground.	50MΩ Min.
3-1-3	Dielectric Strength	Mate applicable FPC/FFC and apply 100V AC(rms) for 1 minute between adjacent terminal or ground.	No Breakdown and flashover

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3-2 MECHANICAL PERFORMANCE

Item		Test Condition	Requirement
3-2-1	Retention Force of single Pin	Apply axial pull out force at the rate of 25~100mm/Min.	0.2N / PIN Min.
3-2-2	Retention force of GND Pin	Apply axial pull out force at the rate of 25~100mm/Min.	0.3N / PIN Min.
3-2-3	Retention force of FFC/FPC	Inserted FFC into connector, apply axial pull out force at the rate of 20~100mm/Min.	0.2N Min./Pin

3-3 Environmental Performance and Others.

Item		Test Condition	Requirement	
3-3-1	Repeated Insertion/Withdrawal	Lock/dis-lock 20times with free loading and lock/dis-lock 5 times with loading.	Contact Resistance	100 milliohm Max.
3-3-2	Vibration	Amplitude : 1.52mm P-P Sweep time : 10-55-10 Hz in 1 minute Duration : 2 hours in each x.y.z. axes	Appearance	No Damage
			Contact Resistance	100 milliohm Max.
			Discontinuity	1.0 microsecond Max.
3-3-3	Shock	490m/s ² {50G}, 3 strokes in each X. Y. Z axlals .	Appearance	No Damage
			Contact Resistance	100 milliohm Max.
			Discontinuity	1.0 microsecond Max.

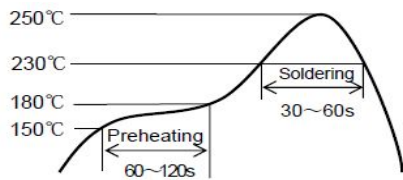
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Item		Test Condition	Requirement	
3-3-4	Heat Resistance	85±2℃, 96 hours	Appearance	No Damage
			Contact Resistance	100 milliohm Max.
3-3-5	Humidity	Temperature : 40±3℃ Relative Humidity :: 90~95% Duration : 96 hours	Appearance	No Damage
			Contact Resistance	100 milliohm Max.
			Dielectric Strength	To meet 3-1-3
			Insulation Resistance	50 Megohm Min.
3-3-6	Temperature Cycling	5 cycles: a)-55±3℃ 30minutes b)25±2℃ 5minutes c)85±3℃ 30minutes c)25±2℃ 5minutes	Appearance	No Damage
			Contact Resistance	100 milliohm Max.
			Discontinuity	1.0 microsecond Max.
			Retention force is above 0.2N/Pin	
3-3-7	Salt Spray	48 hours exposure to a salt spray from the 5±1% solution at 35±2℃	Appearance	No Damage
			Contact Resistance	100 milliohm Max.

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Item		Test Condition	Requirement	
3-3-8	Solderability	Solder Temperature : $245\pm5^{\circ}\text{C}$ Soldering Time : 3 sec.	Solder Wetting	90% of immersed area must show no voids, pin holes
3-3-9	Soldering Heat	Heating temperature profile: $150 \sim 180^{\circ}\text{C}$ 60~120Sec., Peak temperature: $250\pm5^{\circ}\text{C}$, over 230°C last 30~5Sec.	Appearance	No Damage
	Recommend Temperature profile	Heating temperature profile: $150 \sim 180^{\circ}\text{C}$ 60~120Sec., Peak temperature: $250\pm5^{\circ}\text{C}$, over 225°C last 30~5Sec. the profile is only for reference, lock cover shall be opened when proceed IR reflow	Contact Resistance	100 milliohm Max.
		 <u>Temperature profile</u>	Retention force is above 0.2N/Pin	

4. PRODUCT SHAPE AND DIMENSIONS

Refer to the drawing.

