



TEST SUMMARY

TITLE

1.0 SCOPE

This test Summary covers 8 PIN Push-push SIM Connector.

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME AND PART NUMBER(S)

2.2 PRODUCT NAME	PART NUMBER(S)
8 PIN PUSH-PUSH SIM CONNECTOR	476030001

PRODUCT SPECIFICATION TITLE AND DOCUMENT NUMBER

PRODUCT SPECIFICATION TITLE: 8PIN PUSH-PUSH SIM CONNECTOR
DOCUMENT NUMBER: PS-47603-001

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

3.1 TESTING PROCEDURES AND SEQUENCES

Reference Product Specification No. PS-47603-001

3.2 OTHER DOCUMENTS AND SPECIFICATIONS

N/A

4.0 QUALIFICATION

Laboratory conditions and sample selection are in accordance with **EIA-364**.

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5.0 TEST SEQUENCES:

	Group 1 Durability	Group 2 Mechanical Shock / Vibration	Group 3 Temperature Rise	Group 4 Humidity	Group 5 Dry Heat /Cold	Group 6 Salt Spray	Group 7 H2S Gas
Step	Samples 5	Samples 5	Samples 5	Samples 5	Samples 5	Samples 5	Samples 5
1	LLCR	LLCR	Temperature Rise	LLCR	LLCR	LLCR	LLCR
2	Insulation Resistance	Vibration		Insulation Resistance	Low Temperature Exposure	Salt Spray Test	H2S Gas
3	Dielectric Withstanding Voltage	LLCR		Dielectric Withstanding Voltage	LLCR	LLCR	LLCR
4	Insertion Force	Mechanical Shock		Thermal Shock	High Temperature Exposure		
5	Durability	LLCR		LLCR	LLCR		
6	LLCR			Humidity			
7	Insulation Resistance			LLCR			
8	Dielectric Withstanding Voltage			Insulation Resistance			
9				Dielectric Withstanding Voltage			

	Group 8 Solder ability	Group 9 Resistance to Soldering Reflow Heat	Group 10 Normal Force
Step	Samples 5	Samples 5	Samples 5
1	Solder ability	Resistance to Soldering Reflow Heat	Normal Force

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6.0 PERFORMANCE

Group1						
Test Item	Unit	Specification	Max.	Min.	Avg.	Status
Contact Resistance (LLCR)	mΩ	100mΩ max.	8.16	1.14	5.21	Pass
Insulation Resistance	MΩ	100 MΩ Min.	>1.67E+04			Pass
Dielectric Withstanding Voltage	--	500 V AC for 1 minute	No Breakdown			Pass
Insertion Force	N	15 N Max.	9.23	7.62	8.07	Pass
Durability	--	No Physical Damage	No Physical Damage			Pass
Contact Resistance (LLCR)	mΩ	△R:40mΩ Max.	8.40	-5.53	1.25	Pass
Insulation Resistance	MΩ	100 MΩ Min.	>1.63E+06			Pass
Dielectric Withstanding Voltage	--	500 V AC for 1 minute	No Breakdown			Pass
Insertion Force	N	15 N Max.	8.63	8.23	8.43	Pass

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Group2						
Test Item	Unit	Specification	Max.	Min.	Avg.	Status
Contact Resistance (LLCR)	mΩ	100mΩ max.	10.57	2.73	6.15	Pass
Vibration (Operating Random)	μS	Discontinuity<1 μS	No Discontinuity			Pass
	--	No Physical Damage	No Physical Damage			Pass
Vibration (Non-operating Random)	μS	Discontinuity<1 μS	No Discontinuity			Pass
	--	No Physical Damage	No Physical Damage			Pass
Vibration (Operating Sine)	μS	Discontinuity<1 μS	No Discontinuity			Pass
	--	No Physical Damage	No Physical Damage			Pass
Contact Resistance (LLCR)	mΩ	ΔR:40mΩ Max.	5.92	-7.17	-1.29	Pass
Mechanical Shock(50G/11ms)	μS	Discontinuity<1 μS	No Discontinuity			Pass
	--	No Physical Damage	No Physical Damage			Pass
Mechanical Shock(500G/2ms)	μS	Discontinuity<1 μS	No Discontinuity			Pass
	--	No Physical Damage	No Physical Damage			Pass
Contact Resistance (LLCR)	mΩ	ΔR:40mΩ Max.	6.85	-9.96	-2.42	Pass

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Group3						
Test Item	Unit	Specification	Max.	Min.	Avg.	Status
Temperature Rise	°C	ΔT:30 °C Max.	8°C	4°C	5.2°C	Pass

Group4						
Test Item	Unit	Specification	Max.	Min.	Avg.	Status
Contact Resistance (LLCR)	mΩ	100mΩ Max.	55.34	26.54	41.52	Pass
Insulation Resistance	MΩ	100 MΩ Min.	>5.93E+04			Pass
Dielectric Withstanding Voltage	--	500 V AC for 1 minute	No breakdown			Pass
Thermal Shock	--	No Physical Damage	No Physical Damage			Pass
Contact Resistance (LLCR)	mΩ	ΔR:40mΩ Max.	17.98	-16.85	1.74	Pass
High Relative Humidity Exposure	--	No Physical Damage	No Physical Damage			Pass
Contact Resistance (LLCR)	mΩ	ΔR:40mΩ Max.	7.87	-7.95	0.85	Pass
Insulation Resistance	MΩ	100 MΩ Min.	>1.77E+04			Pass
Dielectric Withstanding Voltage	--	500 V AC for 1 minute	No breakdown			Pass

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Group5						
Test Item	Unit	Specification	Max.	Min.	Avg.	Status
Contact Resistance (LLCR)	mΩ	100mΩ Max.	50.83	27.50	41.99	Pass
Low Temperature Exposure	--	No Physical Damage	No Physical Damage			Pass
Contact Resistance (LLCR)	mΩ	△R:40mΩ Max.	14.88	-16.75	0.72	Pass
High Temperature Exposure	--	No Physical Damage	No Physical Damage			Pass
Contact Resistance (LLCR)	mΩ	△R:40mΩ Max.	14.50	-18.03	-0.68	Pass

Group6						
Test Item	Unit	Specification	Max.	Min.	Avg.	Status
Contact Resistance (LLCR)	mΩ	100mΩ Max.	53.95	27.56	44.10	Pass
Salt Spray	--	No Physical Damage	No Physical Damage			Pass
Contact Resistance (LLCR)	mΩ	△R:40mΩ Max.	18.42	-6.32	1.64	Pass

Group7						
Test Item	Unit	Specification	Max.	Min.	Avg.	Status
Contact Resistance (LLCR)	mΩ	100mΩ Max.	52.75	27.31	42.90	Pass
H2S Gas	--	No Physical Damage	No Physical Damage			Pass
Contact Resistance (LLCR)	mΩ	△R:40mΩ Max.	7.04	-11.39	-1.86	Pass

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Group8						
Test Item	Unit	Specification	Max.	Min.	Avg.	Status
Solder ability	--	95% Coverage Min.	>95% Coverage Min.			Pass

Group9						
Test Item	Unit	Specification	Max.	Min.	Avg.	Status
Resistance to Soldering Reflow heat	--	No Physical Damage	No Physical Damage			Pass

Group10						
Test Item	Unit	Specification	Max.	Min.	Avg.	Status
Normal Force	gf	30gf Min.	42.50	30.30	36.01	Pass

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7.0 . FIXTURES AND TEST EQUIPMENT

S/N	DESCRIPTION	MANUFACTURING	MODEL
1	Milliohmmeter	HP	4338B
2	Vertical Type Tensile Strength Test Equipment	JAPAN INSTRUMENT	Max-1KN-H
3	Solder-ability	SOLDER CHECKER	SAT-5000
4	Shock Test Machine	KING DESIGN	DP-1200-60
5	Vibration Test System	KING DESIGN	EM-600F2K-50N120
6	Thermal Shock Chamber	VOTSCH	VT7012 S2
7	Temperature & Humidity Chamber	ENVRON	LTHC-715-216-P
8	Hot Air Rapid Drying Oven	HERAEUS	UT6060
9	Salt Spray Test Instrument	SUGA	ST-ISO-3
10	High Resistance Meter	HP	4339A
11	Withstanding Voltage/Insulation Analyzer	EXTECH	CWI-703
12	Resistance to Soldering Heat	CONCEPTRONIC	HVN-102
13	Gas Corrosion Test	Yamasaki	GB-180-VL/M
14	DC Power Supply	HP	E 3614A
15	Hybrid Recorder	CHINO	Model AH

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