molex®

TEST SUMMARY

USB A TYPE RECEPTACLE SINGLE, RIGHT ANGLE, THROUGH HOLE

1.0 SCOPE

This Product Specification Covers the USB connector series with terminal tin plating and cover selective plating for IR reflow process.

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME AND SERIES NUMBER (S)

USB A TYPE RECEPTACLE SINGLE, RIGHT ANGLE, THROUGH HOLE W/O FLANGE: 67643-2910; 67643-3910; 67643-2911; 67643-3911; 67643-1930;

2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

See the appropriate sales drawings (SD-67643-003) for information on dimensions, materials, plating and markings.

2.3 PRODUCT SPECIFICATION TITLE AND DOCUMENT NUMBER

Title:. USB A TYPE RECEPTACLE SINGLE. RIGHT ANGLE, THROUGH HOLE

Document Number: PS-67643-002

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

TESTING PROCEDURES AND SEQUENCES

Testing is performed sequentially and is divided into two groups, which are illustrated in product specification number "PS-67643-002", Section 1.

OTHER DOCUMENTS AND SPECIFICATIONS

EIA-364 Electrical Connector/Socket Test Procedures including Environmental Classification

MIL-STD-1344 Test Method for Electrical Connectors (Military Standard)

4.0 QUALIFICATION

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

5.0 PERFORMANCE

5.1 ELECTRICAL PERFORMANCE RESULTS

ITEN	M DESCRIPTION	TREATMENT	REQUIRE	MENT	MEAN	MINIMUM	MAX	IMUM	
REVISION:	ECR/ECN INFORMAT	TION: TITLE:	USB 4	TYPF F	RECEPTA	CLF		SHEET	No.
С	EC No: SH2014-0418	3	USB A TYPE RECEPTACLE SINGLE. RIGHT ANGLE			1 of 3			
C	DATE: 2014/04/09		7	THROUG	H HOLE			101	3
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TEST SUMMARY

		Initial	30 milliohms MAXIMUM	8.3mΩ	7.5m Ω	9.4m Ω
		After Durability	30 milliohms MAXIMUM	8.5mΩ	8.1m Ω	8.9 m Ω
		After Vibration	30 milliohms MAXIMUM	20.9mΩ	19.2m $Ω$	22.2mΩ
	Contact		No Discontinuity	Discontinuity < 1 microsecond		
1	Resistance	nce After Shock	30 milliohms MAXIMUM	21.8mΩ	19.6m $Ω$	23.4mΩ
	(Low Level)	(Mechanical)	No Discontinuity	Discontinuit	y < 1 micros	econd
		After Shock (Thermal)	30 milliohms MAXIMUM	13.5mΩ	12.1m Ω	16.9mΩ
		After Thermal Aging	30 milliohms MAXIMUM	5.9mΩ	4.8 m Ω	6.7mΩ
		After Humidity 1(Steady State)	30 milliohms MAXIMUM	18.6mΩ	15.3m Ω	22.9mΩ
2	Insulation Resistance	Initial	1000 Meg ohms MINIMUM	⟩ 1000 Meg ohms		ıms
3	Dielectric Withstanding Voltage	Initial	750 Volts AC MINIMUM	PASS		
4	Capacitance	Initial	2picofarad MAXIMUM	1.5pf	1.3 pf	1.8 pf
5	Temperature Rise	Final	+30 °C MAXIMUM RISE	5.35°C	5.3°C	5.4°C

5.2 MECHANICAL PERFORMANCE RESULTS

ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM	
	Connector	Initial Insertion	3.57Kg MAXIMUM	0.78Kg	0.53Kg	0.91Kg	
6	Mate and Un-mate Force	Initial un-mating	1.02Kg MINIMUM	1.08Kg	1.06Kg	1.12Kg	
7	Terminal Retention Force	Individual	0.8Kg MINIMUM	0.95Kg	0.87Kg	1.09Kg	
8	Durability	See ITEM 1 [TREATI	See ITEM 1 [TREATMENT: After Durability]				
9	Vibration (Random)	See ITEM 1 [TREATMENT: After Vibration]					
10	Shock (Mechanical)	See ITEM 1 [TREATMENT: After Shock(Mechanical)]					

5.3 ENVIRONMENTAL PERFORMANCE RESULTS

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ITEM	DESCRIPTION	TREATMENT	REQUIREMENT				
11	Shock (Thermal)	See ITEM 1 [TREATMENT	e ITEM 1 [TREATMENT: After Shock(Thermal)]				
12	Thermal Aging	See ITEM 1 [TREATMENT	e ITEM 1 [TREATMENT: After Thermal Aging]				
13	Humidity (Steady State)	See ITEM 1 [TREATMENT	ee ITEM 1 [TREATMENT: After Humidity (Steady State)]				
14	Solder ability	Final 95% Coverage Coverage > 95%					
15	Solder Resistance	Final	No damage	No Visual or Dimensional Change			

6.0 FIXTURES AND TEST EQUIPMENT

ITEM	DESCRIPTIOM	MANUFACTURING	MODEL
1	Milliohm Meter	GW	GOM-801G
2	Withstanding Voltage/insulation Analyzer	GW	GPI-735
3	LCR Meter	AGILENT	4263B
4	Automatic mat and unmated test equipment	AIKOH	AIKOH MODEL-1310N
5	DC POWER SUPPLY	GW	GPS-3030D
6	TEMPERATURE TESTER	HOLINK	H-TH-1BP-DHR
7	SHOCK TESTER	KSON	TSK-D4C-150
8	OVEN TESTER	ETQI	9721
9	VIBRATION TEST SYSTEM	UD	AS15-S452/ST

7.0 OTHER INFORMATION

N/A

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