FOR PHONE JACK SERIES **CONNECTOR**

SPECNo: GS-BF-EN-042

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1.0 SCOPE

This Product Specification covers the Phone Jack Series connector.

2.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

See sales drawings and other sections of this specification for the relevant reference documents. In cases where the specification differs from the drawings, the drawings take precedence.

3.0 DESIGN AND CONSTRUCTION

Product shall be of the design, construction and physical dimensions specified on the applicable product drawing.

4.0 MATERIALS

See attached drawings

5.0 RATINGS

Rated current: 1.0A max Rated voltage : 12V

Operating Temperature:-25 °C to +70°C

Storage Temperature: -5 °C to +80°C

APPROVED BY: Haiyong luo CHECKED BY: Max VERIFIED: Jackie

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6. ELECTRICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITIN	REQUIREMENT		
6.1	Contact Resistance	Mate connectors with dry circuit(20mV,100mA Max) Spec: EIA-364-23B	Less than $30 \text{m}\Omega$		
6.2	Insulation Resistance	When applied DC 500V between adjacent terminal or ground Spec: EIA-364-21C	More than $100M\Omega$		
6.3	Dielectric strength	When applied AC 500V 1 minute between adjacent terminal Spec: EIA-364-23B	No change		

7.MECHANICAL REQUIREMENT

ITEM	DESCRIPTION	TEST CONDITIN	REQUIREMENT			
7.1	Mating and Unmating force	Measures force necessary to mate connector assemblies at a rate of 25±3mm/Min Spec: EIA-364-13B	Insertion Force 30N Max Withdrawal Fore 3N Min			
7.2	Durability	Operation Speed: 200 cycles/H. Durability Cycles: 5000 Cycle SPEC: EIA-364-9C	No damage, Cracks or part Dislocation Contact Resistance 50mΩ Max Insertion Force 30N Max Withdrawal Fore 3N Min			
7.3	Terminal Retention Force	Axial pullout force on the terminal in the housing at a rate of 25±3mm/Min per minute Spec: EIA-364-13B	2.5N /PIN Min {250gf/pin. Min}			

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8. ENVIRONMENTAL REQUIREMENTS ITEM DESCRIPTION **TEST CONDITIN** REQUIREMENT The surfaces to be tested shall be immersed in flux for a minimum of 5±0.5 seconds. No evidence of Solder ability the temperature of the solder bath shall be physical damage, Wet 8.1 maintained as measured below the surface on the solder coverage: solder at 245°C±2°C 95%Min Spec: EIA 364-52 No evidence of physical damage The connectors shall be mated and exposed to the condition of $40\pm2^{\circ}$ with 90~95% Humidity for 96 **Contact Resistance** 8.2 Humidity Life hour; Recovery time 1~2 hours 50mΩMax Spec: EIA-364-31B Insulation Resistance 100MΩMin Subject mated connectors to 35+/-2 °C and 5+/-1% No detrimental salt condition for 48hours. After test, rinse the sample corrosion allowed in 8.3 Salt Spray with water and recondition the room temperature for 2 contact area. contact hour resistance \leq 50 m Ω Spec: EIA-364-26B Solder connectors on PCB ,expose to -40±3°C for 48 No evidence of hours. Upon completion of the exposure period, the physical damage Cold test specimens shall be conditioned at ambient room 8.4 conditions for 1 of 2 hours, after which the specified Resistance **Contact Resistance** measurements shall be performed. 50mΩMax

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ITEM	DESCRIPTION		REQUIREMENT						
(条款)	(测试项目)		(必要条件)						
		Samples shall be p	No evidence of						
	Thermal	test condition for 5	physical damage						
		Temperature(°C) -55 +25 +85 +25						Contact Resistance	
0.5	Shock	Time(minute)		50mΩMax					
		Spec:EIA 364-32A	Insulation Resistance						
			100MΩMin						
8.6	Temperature Life(Heat Aging)	Mated Connector & Upon completion specimens shall I conditions for 1 of 2 Spec: EIA-364-17E	No evidence of physical damage Contact resistance: Final:50 mΩ max.						
8.7	Resistance to soldering heat	test condition for re Spec: MIL-STD-20	eat:180-2 Osec Min flow : 2 F, N	TIME solderi	ng 210 A	260 ±5 <u>C</u> 220 C (60sec Min	(10 SEC)	No evidence of physical damage	

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		Test Group										
	Test Item	А	В	С	D	E	F	G	Н	I	J	н
			1	1		Te	est Sec	luence		1		1
1	Examination of Product	1,5	1,3	1,7	1	1,5	1,7	1,7	1,5	1,5	1,3	1,3
2	Contact Resistance	2		2,6		2,4	2,6	2,5	2,4	2,4		
3	Insulation Resistance	3					3,5	3,6				
4	Withstanding Voltage Test	4										
	Mating and Unmating force		2	3,5								
5	Durability			4								
6	Contact Retention Force				2							
7	Cold Resistance					3						
8	Thermal Shock						4					
9	Humidity Life							4				
10	Temperature Life(Heat Aging)								3			
11	Salt Spray									3		
12	Solder ability										2	
13	Resistance to soldering heat											2
14	No. of Test Samples (Min.)	5	5	5	5	5	5	5	5	5	5	5