承认书

SPECIFICATION FOR APPROVAL

Rev.A

FILE NO. AS-PJ-304L-02-EP

客户名称	
CUSTOMER NAME.	
客户料号	
CUSTOMER PART NO.:	
型号	EARPHONE JACK
Model Type:	EARTIONE JACK
制造者系列号	
	PJ SERIES
Maker Series No.:	
制造者料号	DI 2041 02 ED
Maker Part No.:	PJ-304L-02-EP
日期	
	2023.03.24
DATE	

Approved by Customer:



Zhejiang Chunsheng Electronics CO., LTD.

浙江春生电子有限公司



Specifications

Model Type:	EARPHONE JACK	Designed	Checked	Approved
Maker Series No.:	PJ SERIES			
Maker Part No.:	PJ-304L-02-EP	Linda.Chen	Zhengen.Wu	Paul.Wei
Customer Ref.:				

1. APPLICATION

This specification covers the requirements for earphone jacks used for radios, radio cassettes, cassette tape recorders, TV'S, video cassette recorders, video disk units, etc.

- 2. RATED
- 2.1.Practical temperature range: -25° C to +70° C

Humidity range: 85% RH.MAX.

- 2.2.Rated voltage: 30V DC2.3.Rated current: 0.3A
- 3. CONSTRUCTION
- 3.1. Outline And Dimension

Outline and dimension of the jack shown be as attached part drawing.

3.2.Part And Material

The parts and materials shown be in material identification sheet and certification of material.

4. REQUIREMENTS

4.1.Electrical

4.1.1.Insulation resistance

Insulation resistance of the jack between mutually insulated terminals or metalic parts shall be not less than 100 megohms before test or initial, using a 500 volts DC insulation resistance meter.

TABLE 1:

Condition	Value
Initial	
After heat test	
After cold test	100 megohms or more
After resistance to soldering heat test	
After life test	
After temperature cycling test	
After humidity test	50 megohms or more

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4.1.2.Contact resistance

Contact resistance of the jack between terminals to be made a closed circuit shall be not exceed 30 milliohms before test or initial, and shall be not exceed 60 milliohms after life test, At a current of below 1 kHz by the voltage drop method or four terminals method.

TABLE 2:

Condition	Value
Initial	
After heat test	
After cold test	less than 30 milliohms
After resistance to soldering heat test	
After temperature cycling test	
After humidity test	
After life test	less than 60 milliohms

4.1.3. Withstand voltage

The Jack shall be withstanded 500V (AC 50/60Hz RMS) between mutually insulated pin contacts for one minute, without breakdown.

4.2. Mechanical

No.	Item	Test conditions	Requirement
4.2.1	Insertion and extraction force	Insertion and extraction force of jack shall be measured with a load cell or equivalent. The matching plug shall be inserted into the jack and extracted from the jack slowly.	3N to 30N
4.2.2	Terminal strength	1#、3# terminal shall capable of withstand a force of 8N for 5 seconds in any direction.	without lossing and breakdown but deformation of terminal is accepted.
4.2.3	Loosen strength of contact	The jack shall capable of withstand a force of 5N, applied in direction of extraction of contact terminal for 10 seconds	5N for 10 seconds without lossing and breakdown
4.2.4	Life test	The life test shall consist of 5000 cycles of insertion and extraction with gauge plug covered with a thin coat of grease in order to prevent from heating and wearing, at a rate of 20 to 30 cycles per minutes under no load.	comply with paragraphs 4.1 and 4.2

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4.3. Environmental

No.	Item	Test conditions	Requirement
4.3.1	Heat test	The jack shall subjected to temperature of 70° C± 2° C for a period of 96 hours, then shall allowed to remain in room ambient conditions for 30 minutes.	
4.3.2	Cold test	The jack shall be subjected to temperature of -25± 2° C for a period of 96 hours, then shall be allowed to remain in room ambient conditions for 30 minutes.	
4.3.3	Humidity test	The jack shall be subjected to temperature of 40° C± 2° C and relative humidity of 90% to 95% for a period of 96 hours. Upon completion of the exposure, dew drops shall be blown out and removed from it, after which it shall be conditioned at room ambient conditions for 30 minutes.	•Comply with 4.1, 4.2 •No appearance defect occurred
4.3.4	Change of temperature	The product shall be subjected to conditions as shown in below, and then shall returned and allowed to remain ambient condition for 30 minutes. +70° C -25° C Oh 2h 4h 6h (TIME)	
4.3.5	Solderability test	Temperature of solder: 235± 5° C. Time of dip: 3s Max. Length of dip: 2.5 mm (from top of terminal).	Wetting must occur over at least 95% of the solder immersion surface.

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4.4. Environmental

No.	Item	Test conditions	Requirement
4.3.6	Resistance to soldering heat test	 Wave sloder: Terminal for a printed circuit board(PCB), Temperature of solder: 265°C±5°C Dip time: 5s Min. Terminal for a lead wire: Temperature of solder: 380-420°C Time: ≤4seconds 	At the conclusion of the test, it shall comply with paragraphs 4.1 and 4.2(except 4.2.2),and not show remarkable failure. Every terminal shall capable of withstand a force of 5N for 5 seconds in any direction.
4.3.7	Salt mist test	 Testing bath: The temperature shall be 35° C± 2° C in the ambient of the specimen during the test. Spray apparatus: The apparatus shall be capable of producing fine dense mist uniformly. Salt water: The concentration of the salt water shall be adjusted at 5± 1% weight ratio at 35° C± 2° C. Testing time: 24 hours. After washed in water, the sample shall be left alone for 1 to 2 hours in a room ambient. 	Appearance shall be not extremely rust.and contacting portions should such that they will work without hindrance for practical use.

5. TEST CONDITION

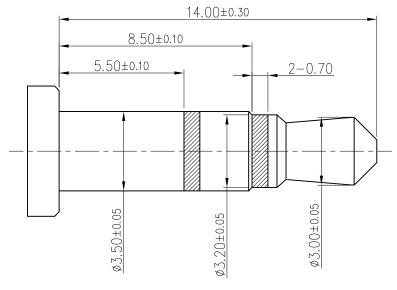
Unless otherwise specified herein, all measurements and tests shall be made at temperature of 5° C to 35° C and relative humidity of 45% to 85%.

6. AMENDMENT

When the amendment of this specification comes into necessity, it shall made by the mutual consultation and agreement between manufacture and customer.

Description	EARPHONE JACK
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EARPHONE JACK GAUGE PLUG



3.50mm PHONE JACK 3 POLE PLUG

Surface roughness: Peak-t0 valley height of 0.20

micro MAX.

For insertion and extraction force:

Material: T10A

Hardness: HRC56-62

For contact resistance:

Material: Brass.

Finish: Silver plated.

