

承认书

SPECIFICATION FOR APPROVAL

Rev.A

FILE NO. AS-PJ-629HF-EP

客户名称

CUSTOMER NAME.

客户料号

CUSTOMER PART NO.:

型 号

PHONE JACK

Model Type:

制造者系列号

PJ SERIES

Maker Series No.:

制造者料号

PJ-629HF-EP

Maker Part No.:

日 期

2020.09.23

DATE

Approved by Customer:



香港春生实业有限公司

浙江春生电子有限公司

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工程部



Specifications

Model Type:	PHONE JACK	Designed	Checked	Approved
Maker Series No.:	PJ SERIES	Linda. Chen	Paul. Wei	Paul. Wei
Maker Part No.:	PJ-629HF-EP			
Customer Ref.:				

1. APPLICATION

This specification covers the requirements for phone jacks used for Audio systems and Video systems.

2. RATED

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

Humidity range: 85% RH.MAX.

2.2. Rated voltage: 50V DC

2.3. Rated current: 0.5A Max.

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 metallic 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	100 megohms or more
After heat test	
After cold test	
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 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	less than 30 milliohms
After heat test	
After cold test	
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 withstood 500V (AC 50/60Hz RMS) between mutually insulated pin contacts for one minute, without breakdown.

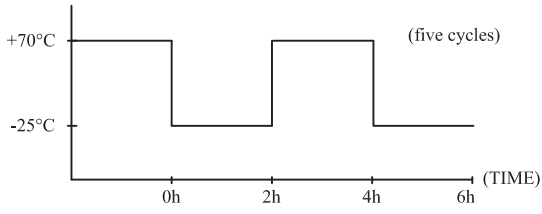
4.2. Mechanical

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 inserted into the jack and extracted from the jack slowly.	5N to 40N
4.2.2	Terminal strength	Every terminal shall be capable of withstand a force of 10N for 10 seconds in any direction.	10N for 10 seconds 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 30N, applied in direction of extraction of contact terminal for 10 seconds	30N 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 be subjected to temperature of $70^{\circ}\text{C}\pm 2^{\circ}\text{C}$ for a period of 96 hours, then shall be allowed to remain in room ambient conditions for 30 minutes.	●Comply with 4.1, 4.2 ●No appearance defect occurred
4.3.2	Cold test	The jack shall be subjected to temperature of $-25\pm 2^{\circ}\text{C}$ 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 $40^{\circ}\text{C}\pm 2^{\circ}\text{C}$ 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.	
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. 	
4.3.5	Solderability test	Temperature of solder: $245\pm 5^{\circ}\text{C}$. Time of dip: 3 ± 0.5 seconds. 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	1. Wave solder: Terminal for a printed circuit board(PCB), Temperature of solder: $260^{\circ}\text{C}\pm 5^{\circ}\text{C}$ Dip time: 3-5 seconds 2. Terminal for a lead wire: Temperature of solder: $380-420^{\circ}\text{C}$ Time: ≤ 4 seconds	At the conclusion of the test, it shall be comply with paragraphs 4.1 and 4.2,and not show remarkable failure.
4.3.7	Salt mist test	1、 Testing bath: The temperature shall be $35^{\circ}\text{C}\pm 2^{\circ}\text{C}$ in the ambient of the specimen during the test. 2、 Spray apparatus: The apparatus shall be capable of producing fine dense mist uniformly. 3、 Salt water: The concentration of the salt water shall be adjusted at $5\pm 1\%$ weight ratio at $35^{\circ}\text{C}\pm 2^{\circ}\text{C}$. 4、 Testing time: 8 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%.

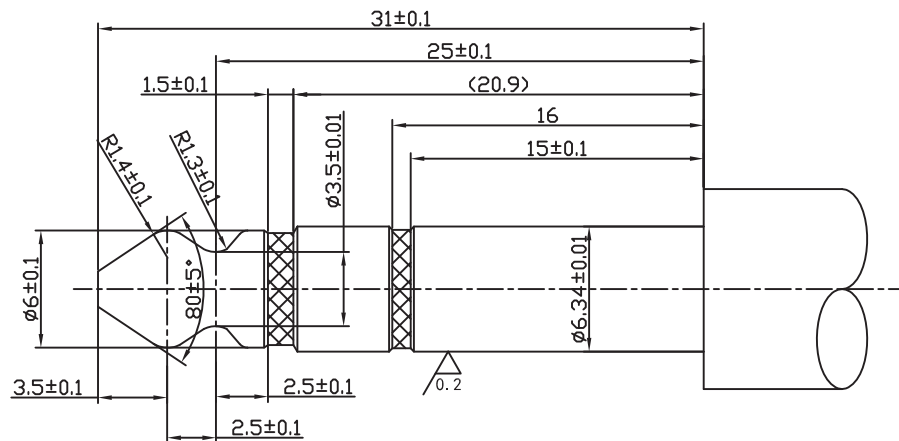
6. AMENDMENT

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

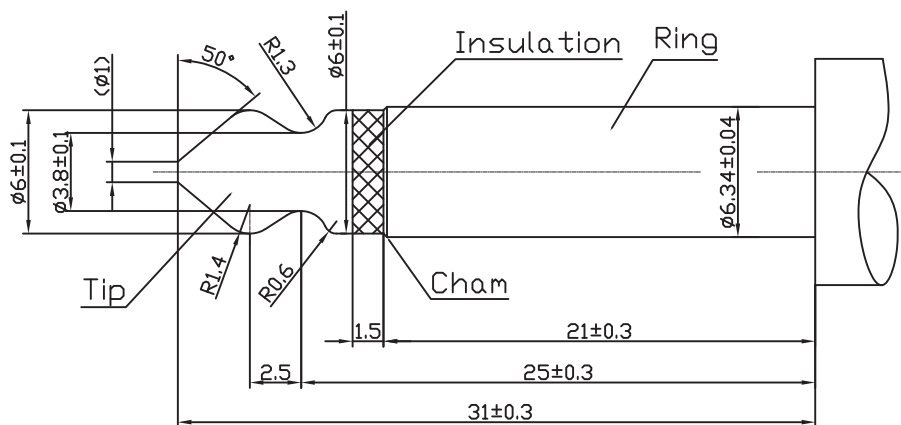
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PHONE JACK GAUGE PLUG



double track Gauge plug



single track Gauge plug

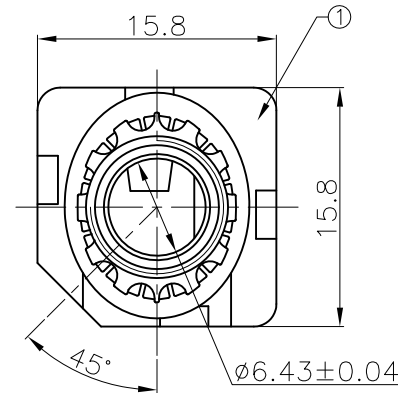
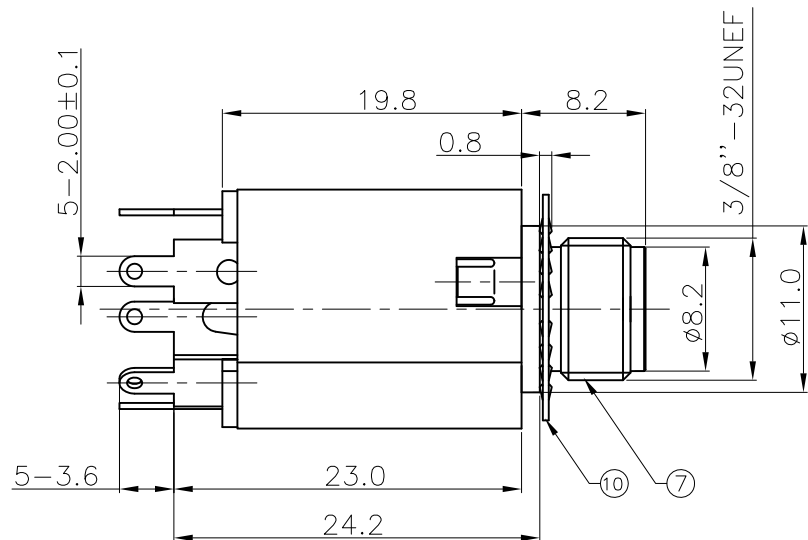
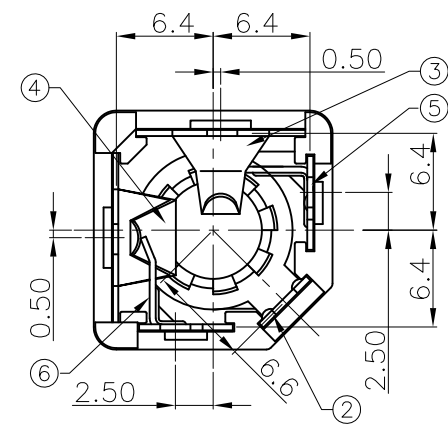
Surface roughness: Peak-to valley height of 0.2 micro MAX.

For insertion and extraction force: Material: T10A

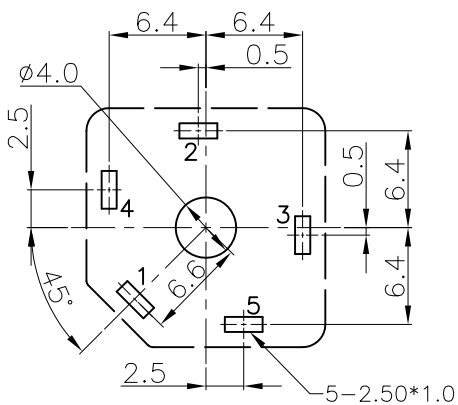
For contact resistance: Material: Brass

Finish: Silver plated

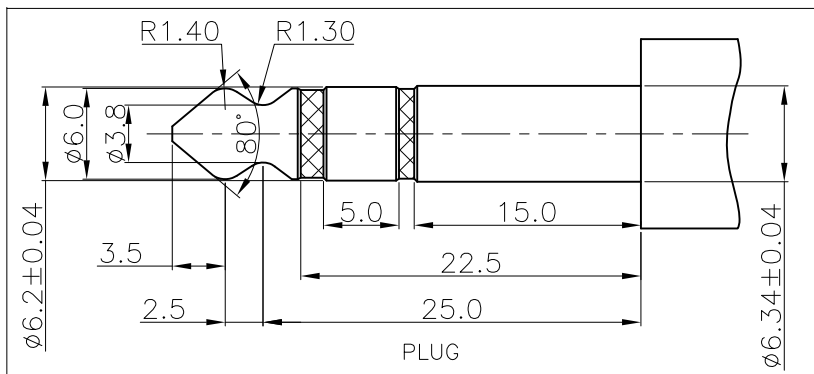
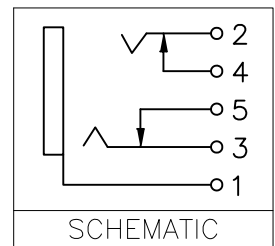
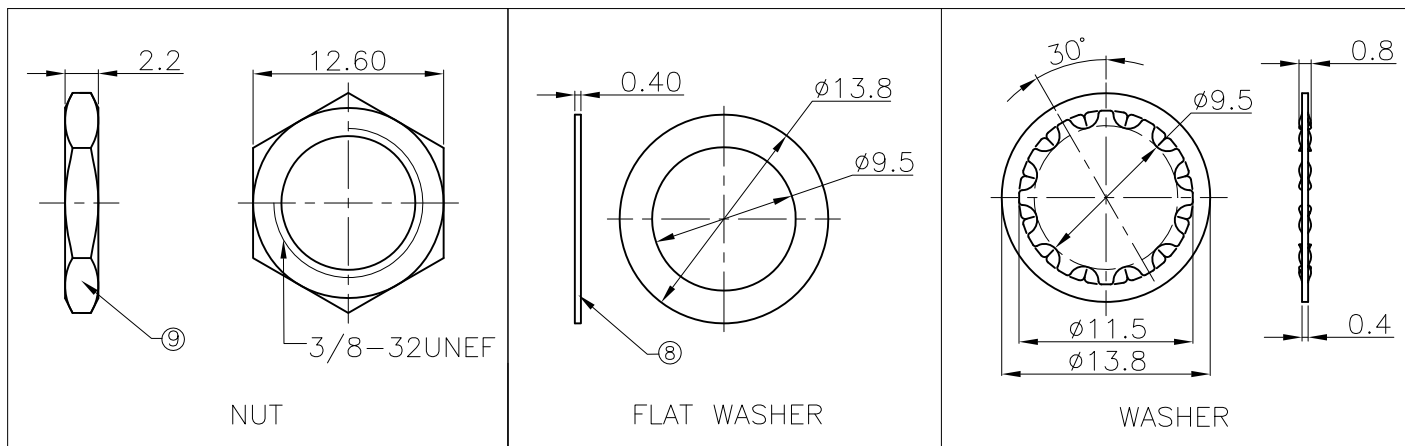
REV.	ECN NO.	MODIFIED MARK	APPROVED
A		FIRST RELEASE	York.Chen



NOTES:
ELECTRICAL:
1:RATED CURRENT: 0.5A Max.
2:RATED VOLTAGE: 50V DC(RMS).
3:CONTACT RESISTANCE: 30 MILLIOHMS Max.
4:INSULATION RESISTANCE: 100 MEGAOHMS Min.
5:DIELECTRIC WITHSTANDING VOLTAGE: 500 VAC Min.
MECHANICAL:
1:INSERTION FORCE: 5N~40N .
2:WITHDRAWAL FORCE: 5N~40N .
ENVIRONMENTAL:
TEMPERATURE RANGE: -25°C TO 70°C.



RECOMMENDED PCB LAYOUT
(TOP VIEW TOLERANCE: ±0.05)



⑩	WASHER		1	Stainless iron	WASHED	RoHS COMPLIANT		
⑨	NUT		1	COPPER ALLOY(H59)	Ni-PLATED			
⑧	FLAT WASHER		1	BRASS,T=0.4mm	Ni-PLATED			
⑦	SLEEVE		1	COPPER ALLOY(H59)	Ni-PLATED			
⑥	TERMINAL-5	5	1	BRASS,T=0.4mm	Ag-PLATED			
⑤	TERMINAL-4	4	1	BRASS,T=0.4mm				
④	TERMINAL-3	3	1	PHOSPHOR BRONZE,T=0.35mm				
③	TERMINAL-2	2	1	PHOSPHOR BRONZE,T=0.4mm	CuSn-PLATED			
②	TERMINAL-1	1	1	BRASS,T=0.35mm				
①	HOUSING		1	PBT	BLACK			
NO.	PART NAME		TER'NO.	Q'TY	MATERIAL	FINISH/COLOR	REMARK	
X.	±0.38	X.* ±3°	MODEL NAME: PJ-629HF-EP SERIES (PART NO.) 706-1003-0379			 浙江春生电子有限公司 Zhejiang Chunsheng Electronics Co., Ltd.	TITLE: PJ-629HF-EP SERIES(CUSTOMER)	
.X	±0.30	.X.* ±2°						
.XX	±0.20	.XX.* ±1°						
TOL TABLE:			MAT'L: SEE TABLE		DESIGN: Z.E.Wu 5/14'18			
THIS DOCUMENT IS THE PROPERTY OF CHUNSHENG ELECTRONICS CO.,LTD.,NO PART THEREOF MAY BE REPRODUCED AND USED WITHOUT THE PRIOR WRITTEN CONSENT OF THE OWNER			FINISH: SEE TABLE		CHECKED: P.F.Wei 5/14'18	DWG NO.: 706-1000-0379		REV.: A
			Q'TY: N/A		APPROVED: York.Chen 5/14'18	UNIT: mm	VIEW: 	SCALE: 2:1