承认书

SPECIFICATION FOR APPROVAL Rev.A

FILE NO. AS-CT3-12AFAP-EP

客户名称
CUSTOMER NAME.

客户料号
CUSTOMER PART NO.:

型 号 Model Type:	XLR CONNECTOR
制造者系列号 Maker Series No.:	CT3 SERIES
制造者料号 Maker Part No.:	CT3-12AFAP-EP
日 期 DATE	2023.11.16

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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浙江春生電子有限公司 工程部

Zhejiang Chunsheng Electronics CO.,LTD.

浙 江 春 生 电 子 有 限 公 司

Specifications

Model Type:	XLR CONNECTOR	Designed	Checked	Approved
Maker Series No.:	CT3 SERIES	Linda.Chen	Yuhao.Zhu	Paul.Wei
Maker Part No.:	CT3-12AFAP-EP			
Customer Ref.:				

1. APPLICATION

This specification covers the requirements for XLR CONNECTOR used for Radio and associated sound equipment.

2. RATED

Practical temperature range: -30° C to +80° C
Humidity range: 85% RH.MAX
Rated voltage: 50V AC(RMS) / DC.
Rated current: 6A 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 (GB/T 5095.2 Method 3a)

Insulation resistance of between mutually insulated terminals or metallic parts shall 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

4.1.2.Contact resistance (GB/T 5095.2 Method 2a)

Contact resistance of between terminals of the jack to be made a closed circuit

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shall not exceed 30 milliohms before test or initial, and shall not exceed 40 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 40 milliohms

4.1.3.Withstand voltage (GB/T 5095.2 Method 4a)

The Jack shall withstanded 1500V (AC 50/60Hz RMS) between mutually insulated pin contacts for one minute, without breakdown.

4.1.4.Capacitance between contacts: ≤7pf

4.2. Mechanical

No.	Item	Test conditions	Requirement
4.2.1	Insertion and extraction force	Insertion and extraction force of product shall measured with a load cell or equivalent. The matching plug shall inserted into the product and extracted from the product slowly. (GB/T 5095.7 Method 13B)	10N-50N
4.2.2	Terminal strength	Every terminal shall capable of withstand a force of 30N for 10 seconds in any direction.	30N for 10 seconds without lossing and breakdown but deformation of terminal is accepted.
4.2.3	Loosen strength of contact	The product 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 1000 cycles of insertion and extraction, at a rate of 20 to 30 cycles per minutes under no load. (GB/T 5095.5 Method 9a)	comply with paragraphs 4.1 and 4.2

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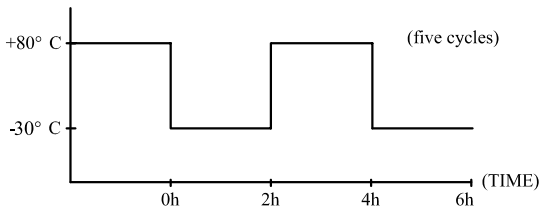
4.3. Environmental

No.	Item	Test conditions	Requirement
4.3.1	Heat test	The product shall subjected to temperature of 80° C± 2° C for a period of 96 hours, then shall allowed to remain in room ambient conditions for 30 minutes. (GB/T 5095.6 Method 11j)	●Comply with 4.1, 4.2 ●No appearance defect occurred
4.3.2	Cold test	The product shall subjected to temperature of -30± 2° C for a period of 96 hours, then shall allowed to remain in room ambient conditions for 30 minutes. (GB/T 5095.6 Method 11j)	
4.3.3	Humidity test	The product shall 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 blown out and removed from it, after which it shall conditioned at room ambient conditions for 30 minutes. (GB/T 5095.6 Method 11c)	
4.3.4	Change of temperature	The product shall subjected to conditions as shown in below, and then shall returned and allowed to remain ambient condition for 30 minutes. (GB/T 5095.6 Method 11d) 	
4.3.5	Solderability test	Temperature of solder: 245± 5° C. Time of dip: 3± 0.5 seconds. Length of dip: 2.5 mm (from top of terminal). (EIA-364-52)	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 sloder: Terminal for a printed circuit board(PCB), Temperature of solder: 260° C± 5° C Dip time: 3-5 seconds 2. Terminal for a lead wire: Temperature of solder: 380-420° C Time: ≤4seconds （EIA-364-56A）	At the conclusion of the test, it shall 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 35° C± 2° C in the ambient of the specimen during the test. 2、Spray apparatus: The apparatus shall capable of producing fine dense mist uniformly. 3、Salt water: The concentration of the salt water shall adjusted at 5± 1% weight ratio at 35° C± 2° C. 4、Testing time: 8 hours. After washed in water. the sample shall left alone for 1 to 2 hours in a room ambient. (GB/T 5095.6 Method 11f)	Appearance shall not extremely rust.and contacting portions should such that they will work without hindrance for practical use.

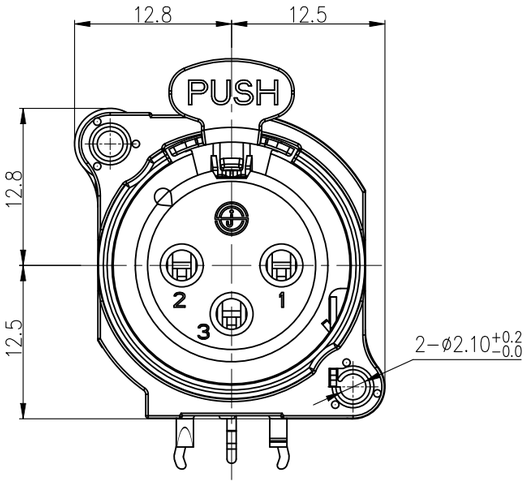
5. TEST CONDITION

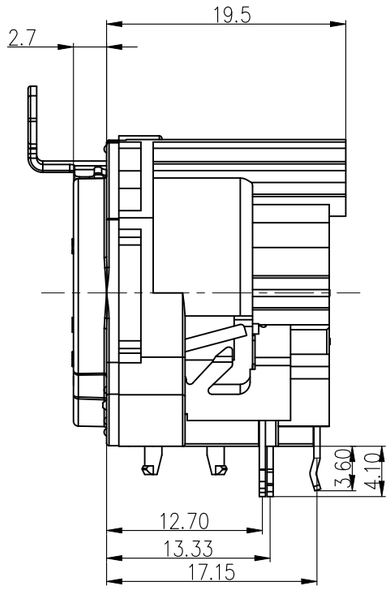
Unless otherwise specified herein, all measurements and tests shall made at temperature of 5° C to 35° C and relative humidity of 45% to 85%.

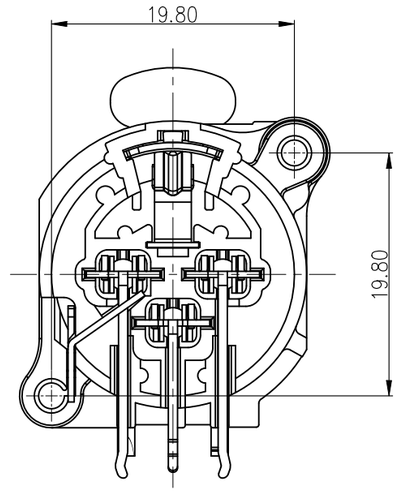
6. AMENDMENT

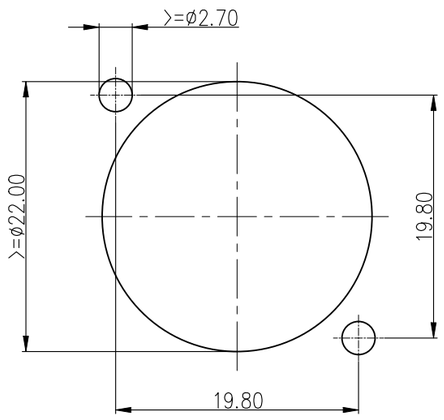
When the amendment of this specification comes into necessity,it shall made by the mutual consultation and agreement between manufacture and customer.

REV.	ECN NO.	MODIFIED MARK	APPROVED
A		FIRST RELEASE	DAVID.LI
B	JC-2310013	Add recommended screw and torque	PAUL.WEI

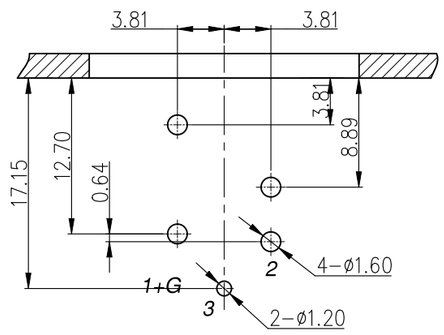




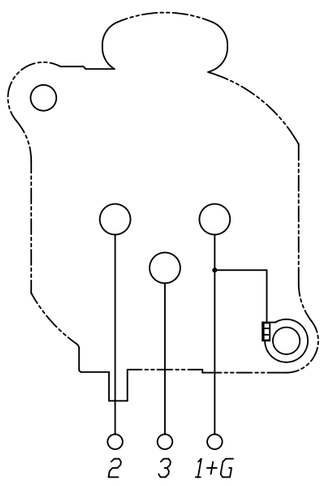




CHASSIS MOUNTING HOLES

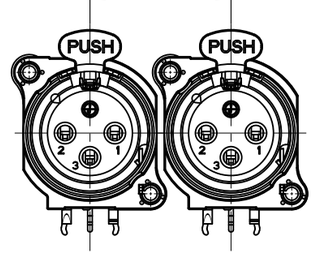


P.C.B. LAYOUT(Tolerance: ±0.1)
TOP VIEW

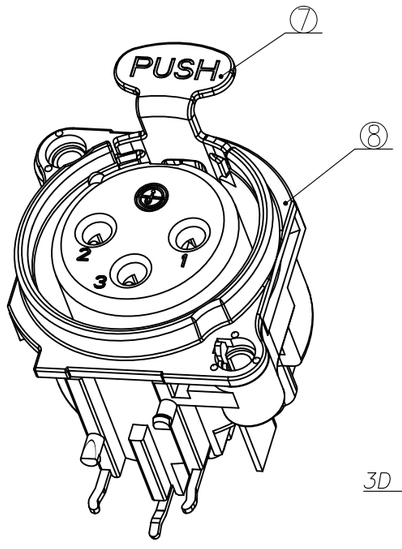


CIRCUIT DIAGRAM

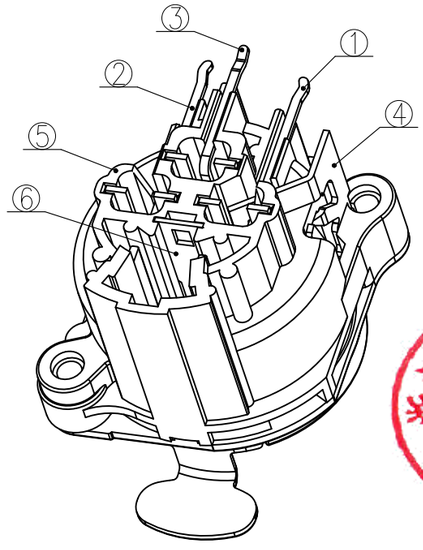
ELECTRICAL:
RATED CURRENT: 6 A MAX.
额定电流: 6 A MAX.
RATED VOLTAGE: 50 V AC(RMS)/DC.
额定电压: 50 V AC(RMS)/DC.
CONTACT RESISTANCE: 30 MILLIOHMS MAX.
接触电阻: 30 MILLIOHMS MAX.
INSULATION RESISTANCE: 100 MEGAOHMS MIN.
绝缘电阻: 100 MEGAOHMS MIN.
DIELECTRIC WITHSTANDING VOLTAGE: 1500 VAC MIN.
耐电压 : 1500 VAC MIN.
MECHANICAL:
机械性能
INSERTION FORCE: 10-50 N MIN.
插入力 : 10-50 N MIN.
WITHDRAWAL FORCE: 10-50 N MIN.
拔出力 : 10-50 N MIN.
DURRABILITY: 1000 CYCLES MIN.
耐久性 : 1000 CYCLES MIN.
ENVIRONMENTAL:
环境性能
TEMPERATURE RANGE: -30° C TO 80° C.
温度范围: -30° C TO 80° C.
Recommended screw type: pointed , tapping screw, ø2.6mm;
推荐螺钉规格: 尖头自攻螺丝, 公称直径ø2.6mm;
Recommended torque: 0.5N.m±10% ;
推荐使用扭矩: 0.5N.m±10%



MIN ASSEMBLING DISTANCE
SCALE 1:1



3D VIEW



8	COVER	ZINC ALLOY	1	Ni-PLATED	RoHS COMPLIANT
7	PUSH TERMINAL	STEEL T=0.70mm	1	Ni-PLATED	
6	LOCKING PLATED	STAINLESS STEEL T=0.30mm	1	BLACKENING	
5	BODY	NYLON(PA66) G30 UL94HB	1	BLACK	
4	EARTH-TERMINAL	PHOSPHOR BRONZE T=0.50mm	1	Sn-PLATED	
3	3#-TERMINAL	PHOSPHOR BRONZE T=0.50mm	1	Au-PLATED	
2	2#-TERMINAL	PHOSPHOR BRONZE T=0.50mm	1	Au-PLATED	
1	1#-TERMINAL	PHOSPHOR BRONZE T=0.50mm	1	Au-PLATED	
NO.	P/N	Material	Q'TY	Finish/Color	Remarked

X.	±0.35
.X	±0.25
.XX	±0.20
.XXX	±0.15

X° ±5°
.X° ±3°
.XX° ±1°
TOL TABLE:

浙江春生電子有限公司 工程部

MODEL NAME: (PART NO.)	CT3-12AFAP-EP (701-0004-0118)		浙江春生电子有限公司 Zhejiang Chunsheng Electronics Co., Ltd.		
MAT'L: SEE DETAIL SHEET	DESIGN: ARRON.ZHU		TITLE: CT3-12AFAP-EP(CUSTOMER DWG)		
FINISH: SEE DETAIL SHEET	CHECKED:		DWG NO.: 701-1000-0118		REV.: B
Q'TY /	APPROVED: PAUL.WEI	UNIT: MM	VIEW:	SCALE: 2:1	SHEET: 1/1	SIZE: A3