

# 深圳市兴华鑫电子科技有限公司 Shenzhen xinghuaxin Electronic Technology Co., Ltd

# 承認書

# SPECIFICATION FOR APPROVAL

客户(Customer):	
客戶料號(Customer P/N):	
興華鑫型號(Supplier P/N):	4015P-2.8MM
產品名稱(Description):	咪头(Microphone)
產品規格(Specification):	4.0*1.5MM 2.8 针

客戶承認欄	深圳市興華鑫電子科技有限公司 承認欄	
(Customer Authorization	(Supplier Audit)	
Signature)		
	審核制作	
	唐国兴美银娟	
	日期: 2022 年 04 月 19 日	
	版次: A	

# 当音让生活更精彩

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# 产品规格内容

#### 1. SCOPE

This specification covers electrical and mechanical requirements for the microphone XHXDZ-4015 带针

#### 2. ABSOLUTE RATINGS

Storage Temperature Range	-40~+70℃
Operating Voltage	1.0~10V

#### 3. ELECTRO-ACOUSTICAL CHARACTERISTICS (Specified for XHXDZ-4015 带针 only)

Test condition(Vs=2.0V, R=2.2k  $\Omega$  , Ta=20  $^{\circ}\!\!\mathrm{C}$  , RH=65%)

Items	Test conditions	Minimum	Nominal	Maximum	Unit
Directivity	Omni-directional				
Sensitivity	1	-39	-36	-33	dB
S/N Ratio	Input Signal : f=1kHz S.P.L=1Pa	58			dB (A)
Output Impedance	0dB=1V/Pa			2.2	kΩ
Current Consumption	0db=1 v/1 a			500	μА
Decreasing Bias Characteristics	Bias Voltage2V→1.5V			-5	dB
Typical Frequency Response (QSY4015PBC-42P2.8)	Relalive response (dB)  -00 -10 -20 -30 -430 -430 -64 -64 -64 -64 -64 -64 -64 -64 -64 -64	100 200 50 Freq	0 1K 2K uency (Hz)		+6 -8 10K 20K
Measurement Circuit  Vs: Source Voltage 2.0V  R: Load Resistance 2.2k Ω  C: Condenser 1 μ F  Ta: Temperature  RH: Relative Humidity	ECM unit	10PF	erminal 1 RL C V	IuA SdB	Vs

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#### 4. MECHANICAL CHARACTERISTICS

Dimensions	See Appearance Drawing
Weight	Less than 1.0 g
Terminal Mechanical	To be no interference in operation after pulled terminal with 0.5kg strength for 1 minute.
Strength	(PIN and SOLDERING type only)

#### 5. RELIABILITY TESTS

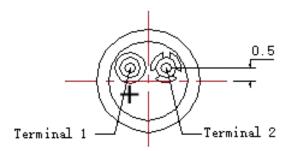
Items	Test Conditions	Evaluation Standards
High Temperature Test	+80℃ for 200 hours	Sensitivity Change within ± 3dB
		relative to initial value *
Low Temperature Test	-40℃ for 200 hours	Sensitivity Change within ± 3dB
		relative to initial value *
Temperature Cycle Test	Temperature cycle of $-40^{\circ}\text{C}/45$ minutes , $+70^{\circ}\text{C}$	Sensitivity Change within ± 3dB
	/45 minutes, 5 cycles duration	relative to initial value *
Humidity Test	$+65^{\circ}\text{C}$ and $90{\sim}95\%$ for 200 hours	Sensitivity Change within ± 3dB
		relative to initial value *
* Sensitivity measurement is to be done 12 hours after each test		

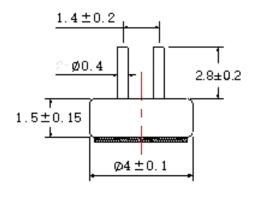
#### 6. MECHANICAL TESTS

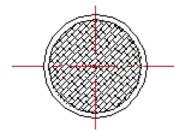
Items	Test Conditions	Evaluation Standards
Vibration Test	Vibration cycle of 10 to 50 Hz/1min, for 2 hours, full	Sensitivity Change within ± 3dB
	Amplitude 1.52mm, in 3 directions	relative to initial value
Drop Test	Dropping to concrete floor from 1 m height,	Sensitivity Change within ± 3dB
For packing	Directions: 1corner, 3 edges, 6 planes	relative to initial value

# 产品规格内容

#### 7. APPEARANCE & DIMENSIONS







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#### 8. HANDLING INSTRUCTION

- Assembly process
  - a) After connector and holder are once disassembled, they should not be re-used;
  - b) Do not touch outer springs directly (except for PCB or proper terminal set at nominal height)
  - c) Do not give any mechanical shocks to the microphone (e.g. dropping to floor);
- 2. General information
  - 2-1 This microphone shall not be operated or stored in following environment.
    - >Where liquid (water, solvent and so on) splashes.
    - >Where the air has a high concentration of corrosive gas.
    - >Where is too dusty.
    - >Where temperature changes rapidly.
  - 2-2 Frequency response especially in high frequency region is dependent on the structure of enclosure Please remove additional acoustic mass or cavity in front of the microphone to the utmost.
  - 2-3 Do not put mechanical pressure more than 2kg to the microphone.
  - 2-4 Microphones should be in state of outgoing packaging for a long-term storage.