



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

客戶 (Customer):

客戶料號 (Customer P/N):

興華鑫型號 (Supplier P/N):

XHxDZ-4015 帶針

產品名稱 (Description):

咪頭 (Microphone)

產品規格 (Specification):

4.0*1.5MM

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

声音让生活更精彩!

地址: 深圳市宝安区新安街道新乐社区新乐路 88 号厂房四层

TEL: 0755-27892904 13652428659

QQ: 438730351 2993501458

E-mail: jacky.tang@jsxhxdz.com

Http: www.jsxhxdz.com

深圳市兴华鑫电子科技有限公司

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

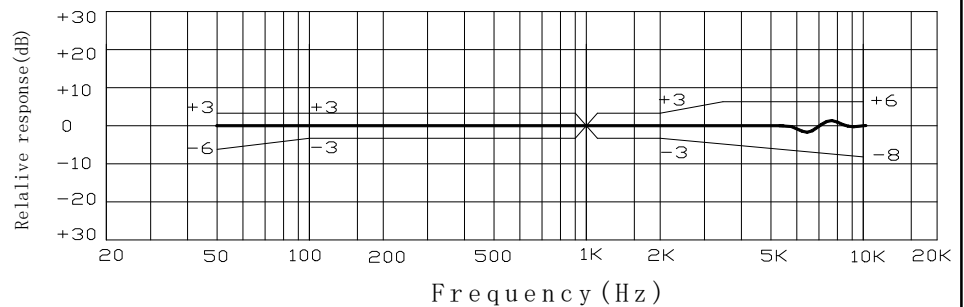
Storage Temperature Range	-40~+70℃
Operating Voltage	1.0~10V

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

Test condition($V_s=2.0V$, $R=2.2k\Omega$, $T_a=20^\circ C$, $RH=65\%$)

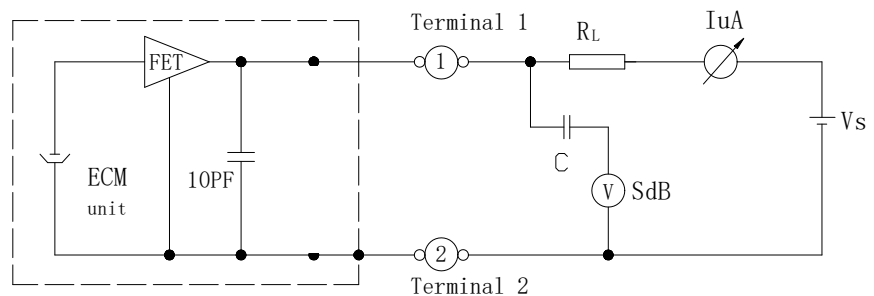
Items	Test conditions	Minimum	Nominal	Maximum	Unit
Directivity	Omni-directional				
Sensitivity	Input Signal : $f=1kHz$ S.P.L=1Pa 0dB=1V/Pa	-40	-38	-36	dB
S/N Ratio		58			dB (A)
Output Impedance				2.2	$k\Omega$
Current Consumption				500	μA
Decreasing Bias Characteristics	Bias Voltage 2V→1.5V			-5	dB

Typical Frequency Response
(QSY4015PBC-42P2.8)



Measurement Circuit

V_s : Source Voltage 2.0V
 R : Load Resistance $2.2k\Omega$
 C : Condenser $1\mu F$
 T_a : Temperature
 RH : Relative Humidity



深圳市兴华鑫电子科技有限公司

产品规格内容

4. MECHANICAL CHARACTERISTICS

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

5. RELIABILITY TESTS

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

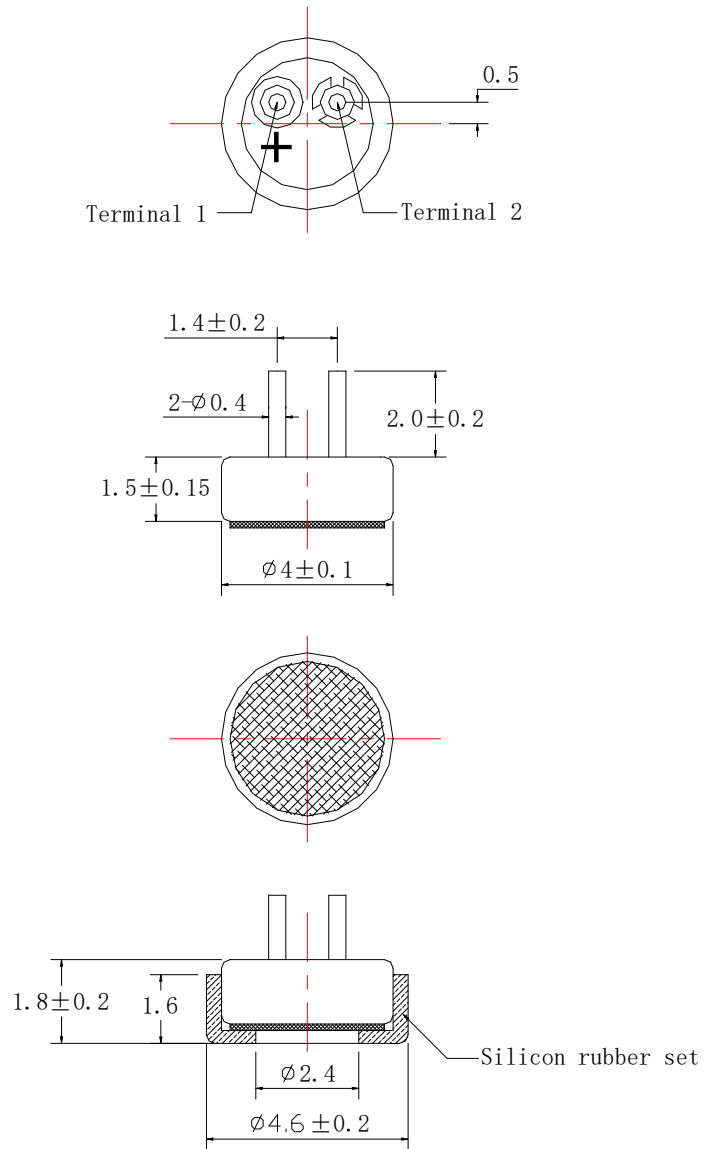
6. MECHANICAL TESTS

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

深圳市兴华鑫电子科技有限公司

产品规格内容

7. APPEARANCE & DIMENSIONS



深圳市兴华鑫电子科技有限公司

产品规格内容

8. HANDLING INSTRUCTION

1. 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.