



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-4013 绑定单电容

產品名稱 (Description):

咪头 (Microphone)

產品規格 (Specification):

红板 4.0*1.3mm

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		

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1. 范围 (Scope)

The specifications should be applied to electret condenser microphone of XHY4013S423-GP.

此规格书适用于 XHDXZ-4013 绑定单电容.型驻极体电容传声器。

2. 储藏与判断条件 (Storage And Judgement Conditions)

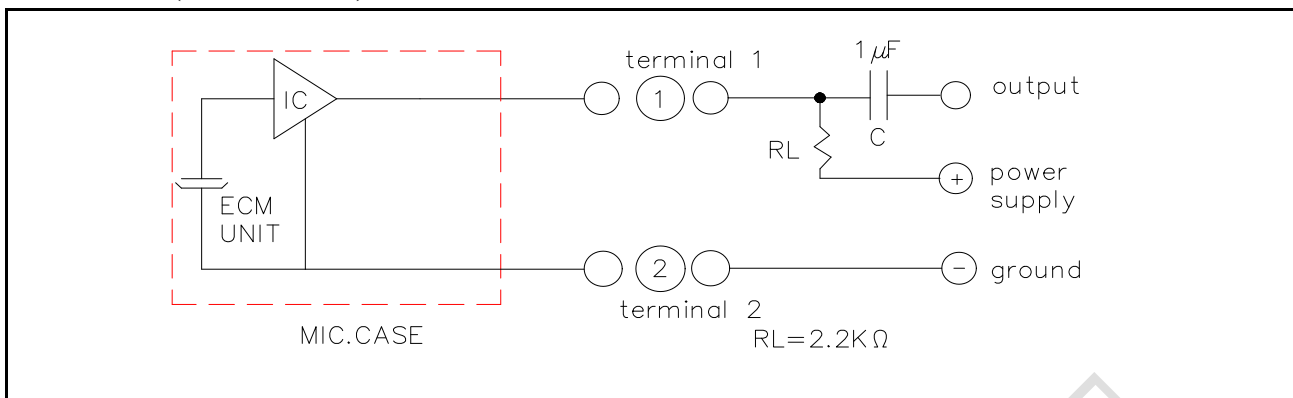
	Temperature Range(° C)	Rel. Humidity(%)	Static Pressure(kPa)
Judgement	19~21	60~65	86~106
Storage	-25~70	<80	
Operating	-25~70	<80	

3. 规格 (Specifications)

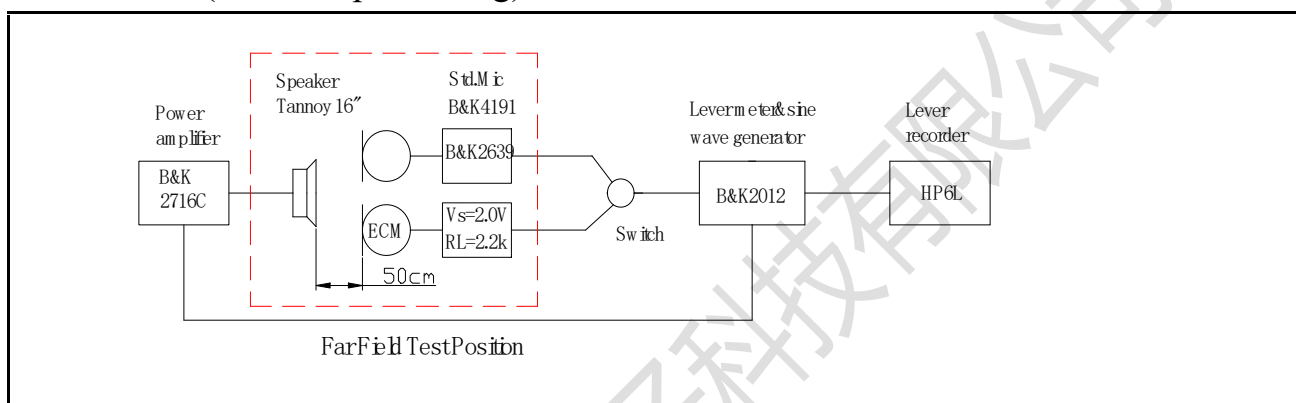
Test conditions($V_S=2.0V$ $R_L=2.2k\Omega$ Temp= $20\pm 2^{\circ}C$ R.H= $60\pm 5\%$)

Item	Symbol	Test Conditions	Min	Standard	Max	Unit
灵敏度 Sensitivity	S	f=1kHz,Pin=1Pa	-45	-42	-39	dB (0dB=1V/Pa)
阻抗 Impedance	Z	f=1kHz,Pin=1Pa			2.2	k Ω
指向性 Directivity		Omni-directional				
消耗电流 Current Consumption	I				500	μA
工作电压 Operation Voltage Range	U		1.5	2.0	10	V
信噪比 S/N Ratio	S/N(A)	f=1kHz,Pin=1Pa A Curve	58			dB
降压特性 Decreasing Voltage Characteristic	ΔS	f=1kHz,Pin=1Pa $V_S=2.0-1.5V$			-3	dB
最大输入声压级 Max.Input Sound Level	MISPL	f=1kHz Distortion<1%			110	dB

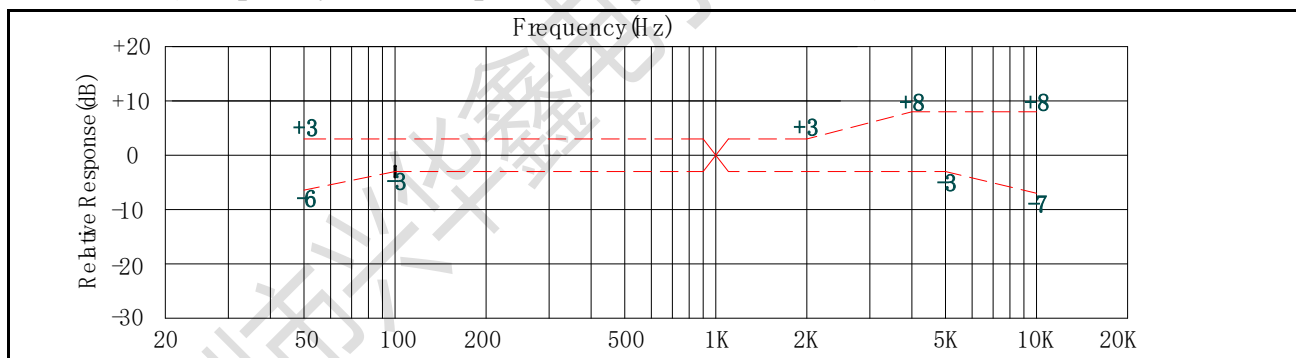
4. 测试电路 (Test Circuit)



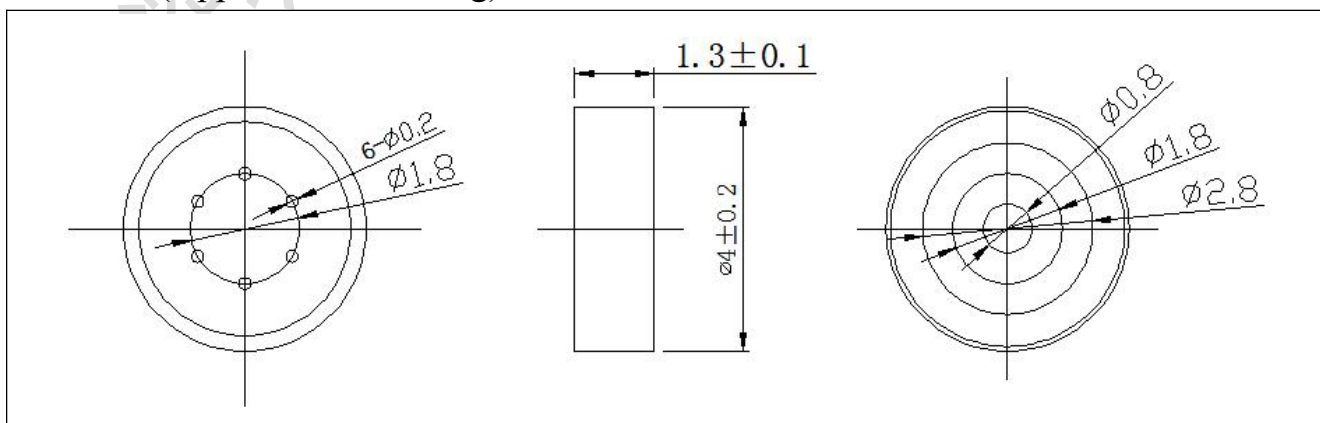
5. 测试装备图 (Test Setup Drawing)



6. 频率响应 (Frequency & Microphone Response Tolerance)



7. 外观图 (Appearance Drawing)



8. 可靠性试验 (Reliability Test)

在下列试验完成后,在温度为 20℃,相对湿度为 65%的条件下恢复 2 小时后进行测试,灵敏度与初始灵敏度相差在 ±3dB 以内.

(All tests should be done after 2 hours of conditioning at 20℃, R.H65%, while the sensitivity is to be within ±3dB from the initial sensitivity after the following experiments.)

8.1 高温试验 (HIGH TEMPERATURE TEST)

温度(High temperature):	+70℃
放置时间(Duration):	96 hours

8.2 低温试验 (LOW TEMPERATURE TEST)

温度(Low temperature):	-40℃
放置时间(Duration):	96 hours

8.3 温度循环试验(如图 1) (TEMPERATURE CYCLE TEST)(See in Fig.1)

低温(Low temperature):	-40℃
高温(High temperature):	+70℃
转化时间(Changeover time):	30min
放置时间(Duration):	60min
次数(Cycle):	5

8.4 湿度 (STATIC HUMIDITY TEST)

温度(Temperature):	+40℃
相对湿度(Relative humidity):	90~95%
放置时间(Duration):	96 hours

8.5 振动试验 (VIBRATION TEST)

振幅(Amplitude):	1.52mm
持续时间(Duration):	1 分钟/面(minutes/plane)
频度范围(Freq.range):	10~55Hz
试验时间(Total time):	2 小时(hour)

8.6 跌落试验 (DROP TEST)

不带包装的跌落到 20mm 厚的地板上(Drop a unit unpacked onto a board of 20mm thick)

高度(Height):	1 m
次数(Cycle):	6 (1 each plane)

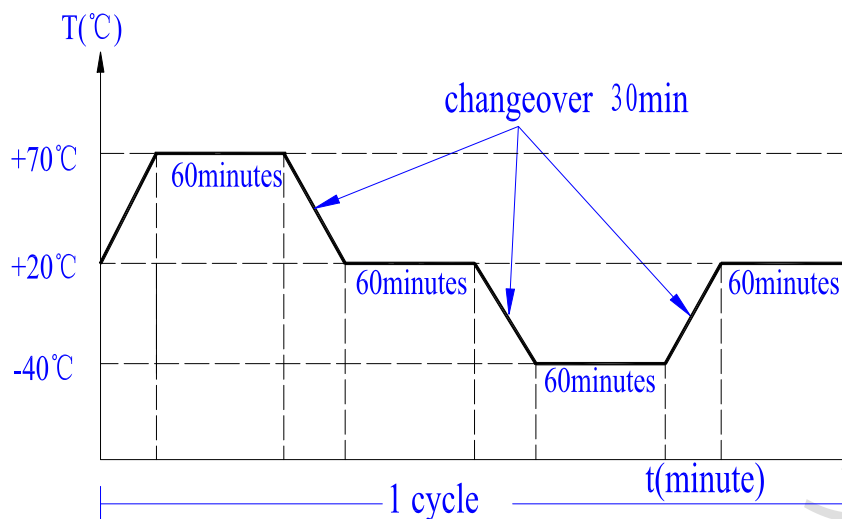
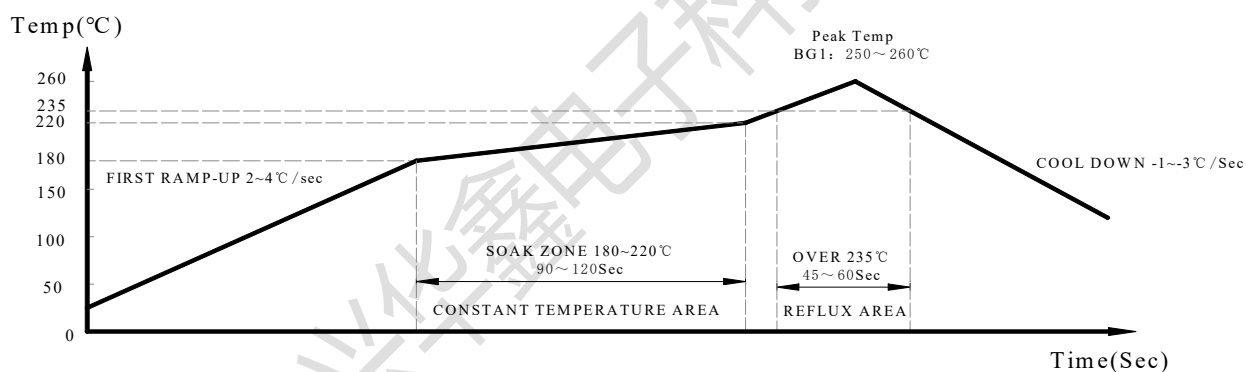


图.1. 温度循环试验

Fig.1 TEMPERATURE CYCLE TEST

9. REFLOW PROFILE (GUARANTEED MAXIMUM REFLOW CONDITION)



NOTE:

- 1、 The maximum temperature rise in the slope of 2~4°C/sec
- 2、 The constant temperature is 180~220°C, Time: 90~120sec
- 3、 The reflow area temperature is above 235°C, Time: 45~60 sec
- 4、 The maximum temperature is 250~260°C, Time: Max 5 sec
- 5、 The maximum temperature drop in the slope of -1~-3°C/sec

REFLOW SOLDERING PROFILE
(TBD)

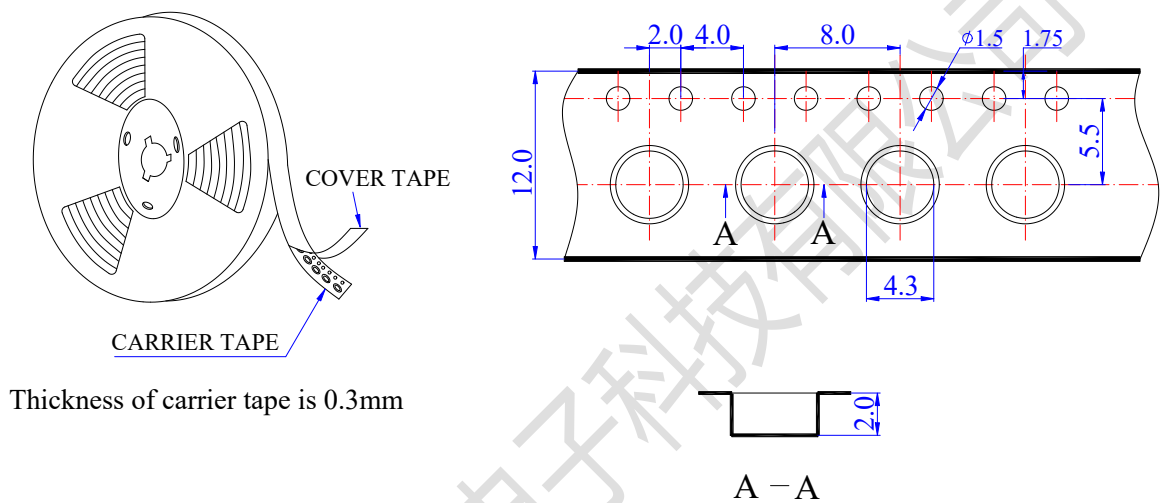
Do not perform more than twice
After reflow soldering under following conditions in the first time, the sensitivity of the microphone shall be changed within 2 dB from initial value.

10. 包装规格 (Packing Specifications)

- 1.Item: Electret Condenser Microphone
- 2.Model: XHXDZ-4013 绑定单电容.
- 3.Customer:
- 4.Remarks: plastic bag enclosed in the outer box for moisture proof

Packing Method Box Size (unit:mm)

A.Package dimension figure



B.Packing drawing

