



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 贴片咪头
產品名稱(Description): 咪头 (Microphone)
產品規格(Specification): 高温贴片咪头

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 XHXDZ-4013 贴片咪头.
此规格书适用于 XHXDZ-4013 贴片咪头.型驻极体电容传声器。

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

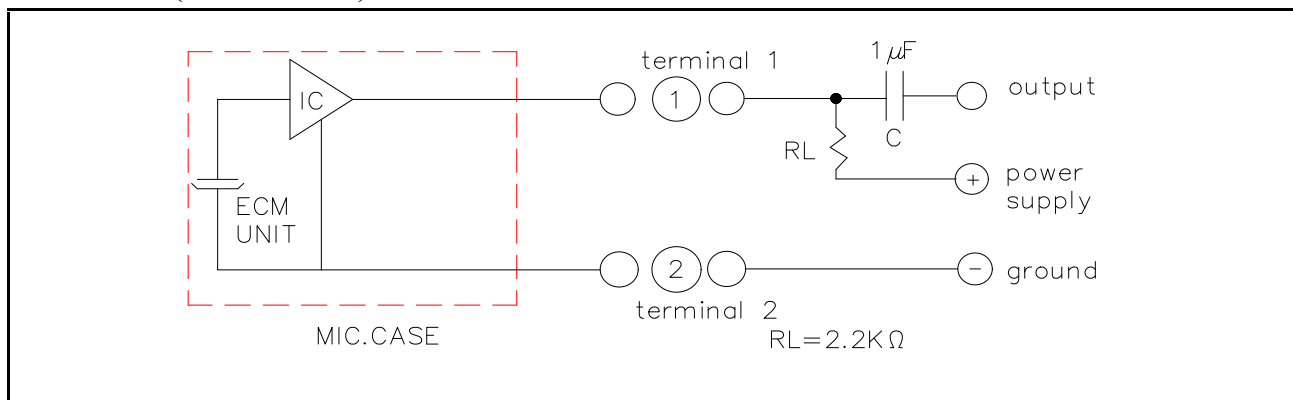
	Temperature Range(° C)	Rel. Humidity(%)	Static Pressure(kPa)
Judgement	19~21	60~65	86~106
Storage	-25~70	<80	
Operating	-25~70	<80	

3. 规格 (Specifications)

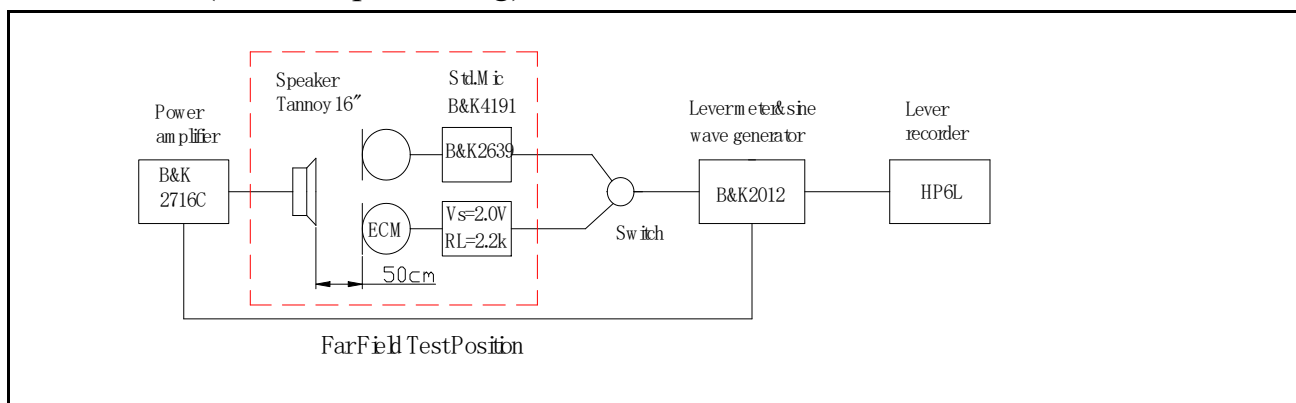
Test conditions($V_S=2.0V$ $R_L=2.2k\Omega$ Temp= $20\pm 2^{\circ}C$ R.H= $60\pm 5\%$)

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

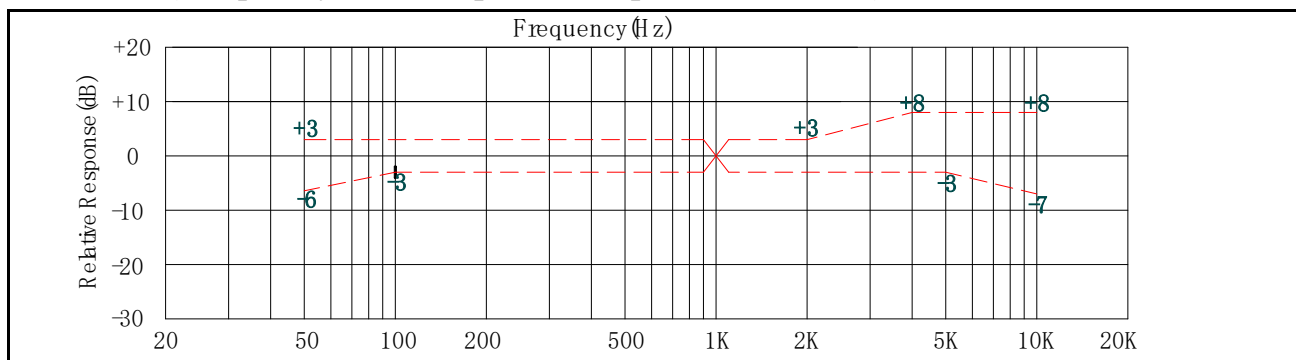
4. 测试电路 (Test Circuit)



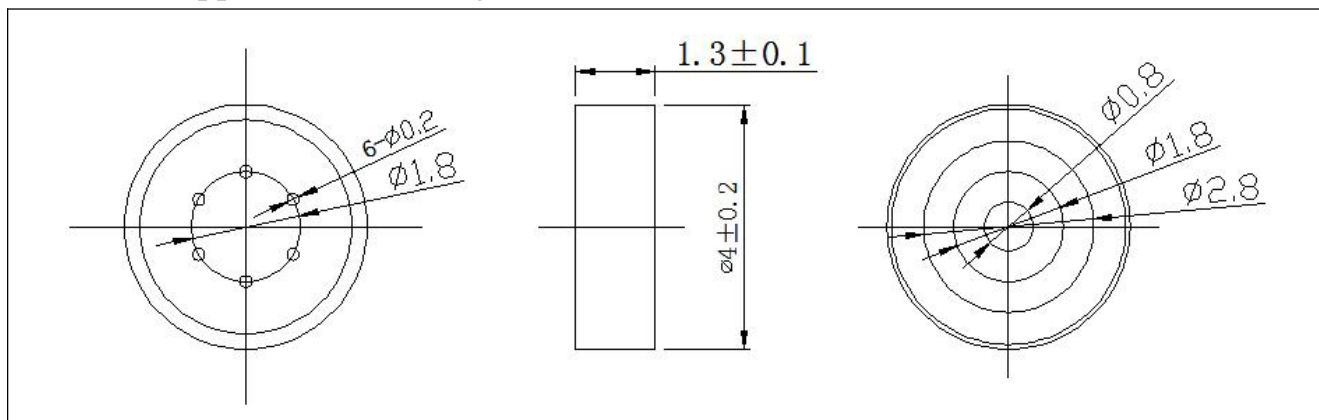
5. 测试装备图 (Test Setup Drawing)



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)

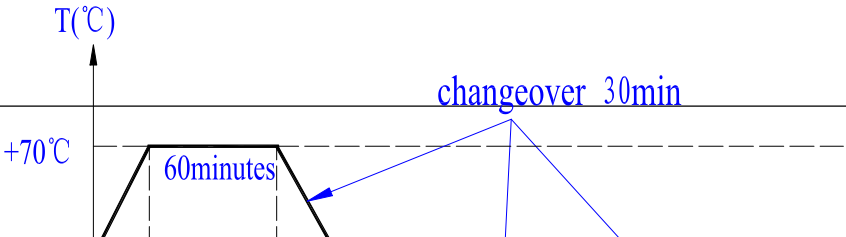
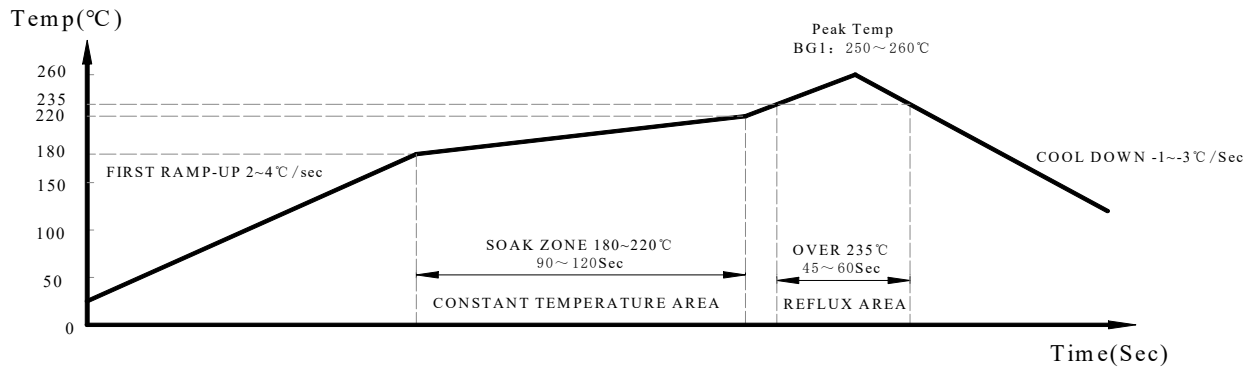


图.1. 温度循环试验

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 reflux 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)

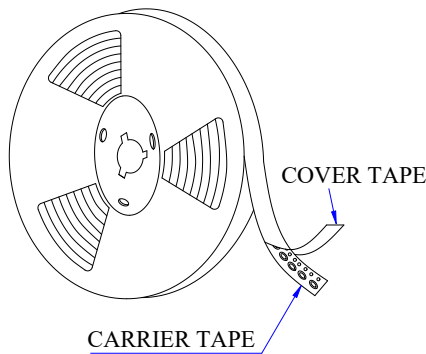
- 1.Item: Electret Condenser Microphone
- 2.Model: XHxDZ-4013 贴片咪头.

3.Customer:

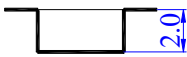
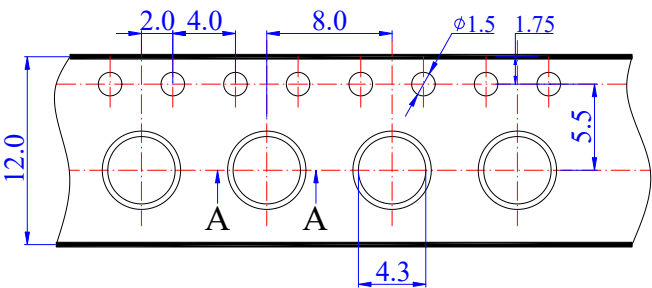
4.Remarks: plastic bag enclosed in the outer box for moisture proof

Packing Method Box Size (unit:mm)

A.Package dimension figure

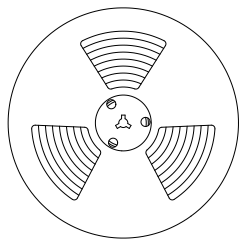


Thickness of carrier tape is 0.3mm



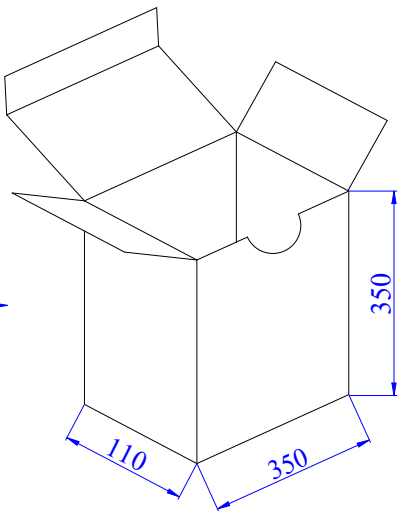
A - A

B.Packing drawing



Packing(5000PCS)

5 Sets



Box(25000PCS)