APPROVAL SHEET

FOR

MAGNETIC BUZZER

ILOSAM ELECTRONICS CO., LTD.

CLUE No.:

MODEL No.: IMT12A

OUR PART No.:

DOCUMENT No.:

CUSTOMER	APPROVED	CHECKED

f 1. Document revision history

修改时间	版本	修改页次	修改内容	确认人

2.Technical Parameter

Measuring condition

Part shall be measured under a condition (Temperature: 5～35℃, Humidity: 45%～85%R.H., Atmospheric pressure: 860 ～1060hPa)

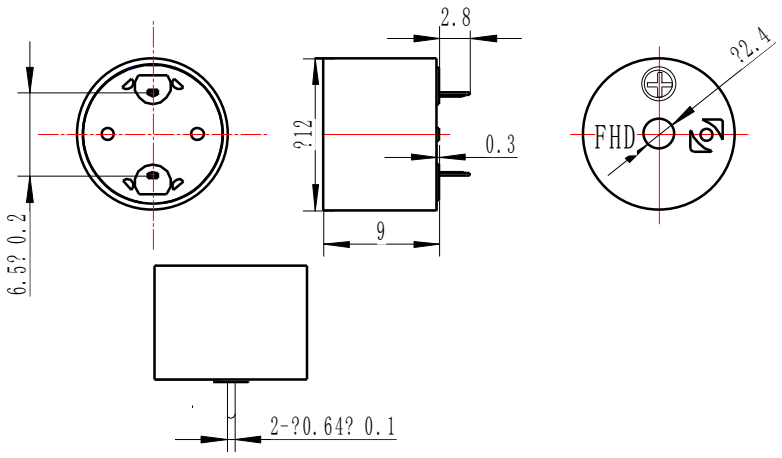
unless the standard condition (Temperature: 25±3℃, Humidity: 60±10%R.H. Atmospheric pressure: 860 ～1060hPa) is regulated to measure.



	Model NO	IMT12A2401P	IMT12A2403P	IMT12A2405P
1	Rated Voltage	1.5Vo-p	3Vo-p	5Vo-p
2	Operating Voltage	1-3Vo-p	2`5Vo-p	4~7Vo-p
3	Rated Current	Max.50mA ,at 2048Hz 50% duty Square Wave 1.5Vo-p	Max.80mA ,at 2400Hz 50% duty Square Wave 3Vo-p	Max.80mA ,at 2400Hz 50% duty Square Wave 5Vo-p
4	Sound Output at 10cm	Min. 85dB,at 2048Hz 50% duty Square Wave 1.5Vo-p	Min. 85dB,at 2400Hz 50% duty Square Wave 3Vo-p	Min. 85dB,at 2400Hz 50% duty Square Wave 5Vo-p
5	Coil Resistance	16±4Ω	27±3Ω	47±5Ω
6	Resonant Frequency	2048Hz		
7	Operating Temperature	-20℃～+70℃		
8	Store Temperature	-30℃～+80℃		
9	Net Weight	Approx 1.6g		
10	RoHS	Yes		

3.Dimensions

Unit: mm

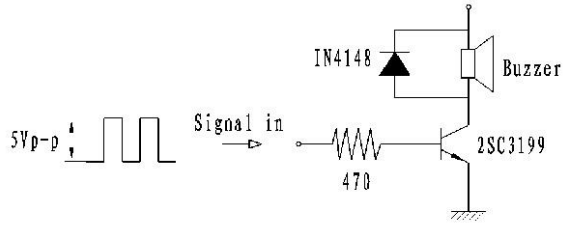


*Unit: mm; Tolerance: ±0.5mm Except Specified

*Housing Material: Black PBT

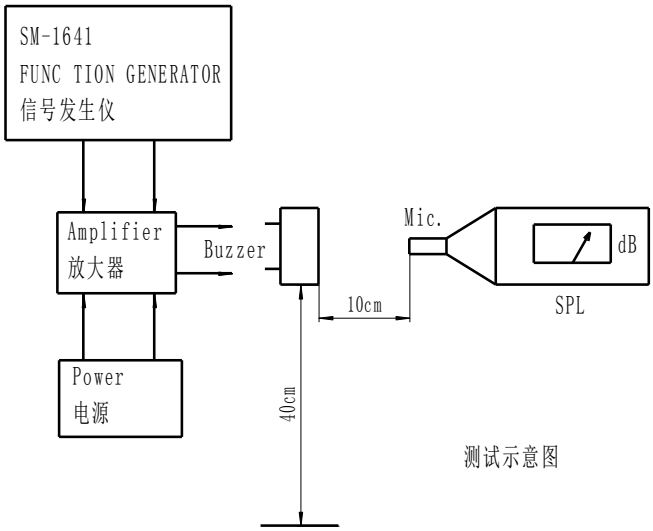
4.Electrical And Acoustical Measuring Condition

Recommended Driving Circuit



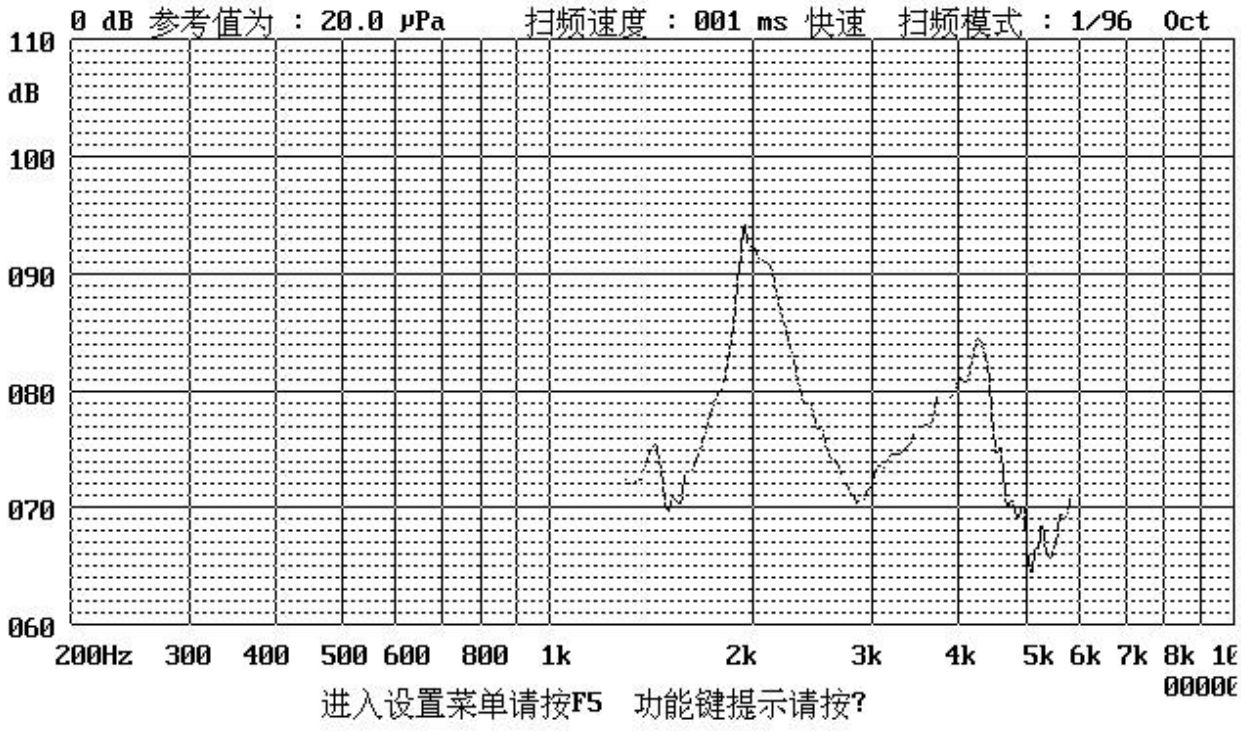
Resonant frequency, 1/2 duty cycle. Square wave. Signal amplitude should be large enough tosaturate the transistor.

Recommended Setting



测试示意图

5.Frequency Response



1.5Vo-p 50% duty Square wave,10cm

6.Reliability Test

After any following tests the part shall meet specifications without any degradation in appearance and performance except SPL. SPL shall not deviate more than -10 dB from the initial value

6.1 Ordinary Temperature Life Test

The part shall be subjected to 96 hours at 25±10℃. Input rated voltage Resonant frequency, 1/2 duty Square wave.

6.2 High Temperature Test

The part shall be capable of with standing a storage temperature of +80℃ for 96 hours.

6.3 Low Temperature Test

The part shall be capable of with standing a storage temperature of -30℃ for 96 hours.

6.4 Humidity Test

Temperature:+40℃±3℃ Relative Humidity:90%～95% Duration: 48 hours and expose to room temperature for 6 hours

6.5 Temperature Shock Test

Temperature:70℃ /1hour→ 25℃/3hours→-30℃/1hour→ 25℃/3hours (1cycle)
Total cycle: 10 cycles

6.6 Drop Test

Standard Packaging From 75cm(Drop on hard wood or board of 5cm thick, three sides, six plain.)

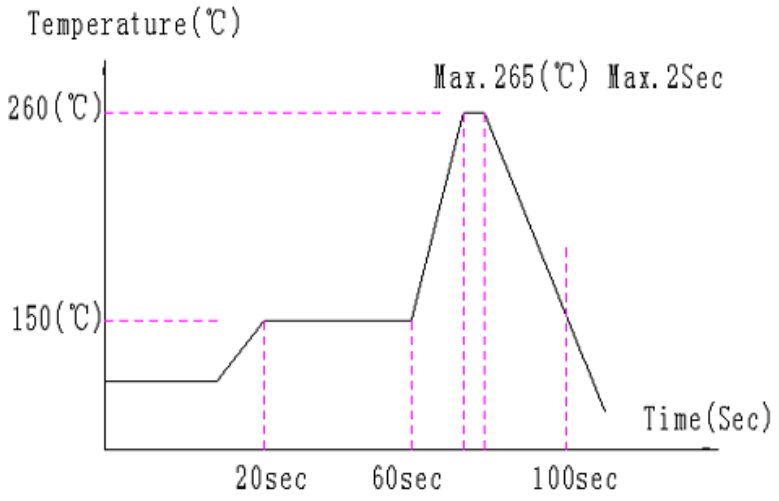
6.7 Vibration Test

Vibration:1000cycles /min. Amplitude:1.5mm, Duration: 1 hour in each 3 axes

Note:

As this product is not protected from foreign material entering, please make sure that any foreign materials (e.g. magnetic powder, washing solvent, flux, corrosive gas) do not enter this product in your production processes. The functional degradation (e.g. SPL down) may occur if foreign material enter it.

7.Recommended the wave soldering temperature



8. **Packing**

包装要求	1.12 型泡沫盒长蜂，1000pcs 一堆；5 堆/箱；5000pcs/箱 2.泡沫料号：F6-P-011(盒)，F6-G-023（盖） 3.外箱料号：F6-X-002；外箱尺寸 50*41*25cm	
唛头要求	内盒：	外箱：

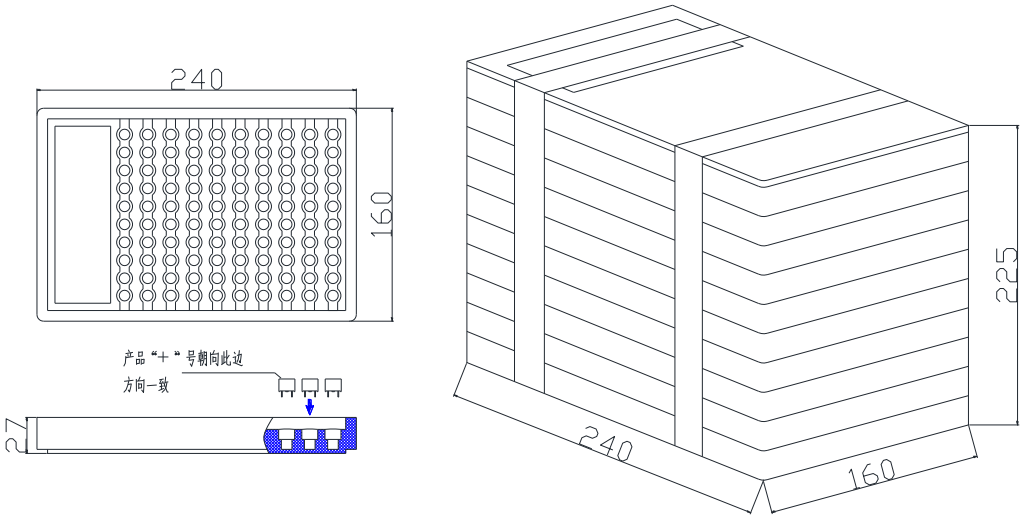


Fig.1

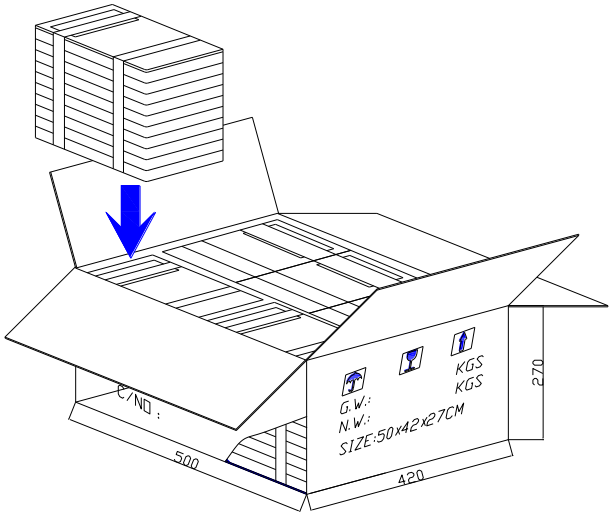


Fig.2

	包装名称	包装数量(pcs)	包装尺寸(mm)	图解
1	泡沫盒	100	240×160×24	Fig. 1
2	一叠	1000	240×160×225	Fig. 1
3	箱子	5000	500×420×270	Fig. 2