



APPROVAL SHEET  
FOR  
MAGNETIC BUZZER

常州富鸿达电子有限公司

CHANG ZHOU FHD ELECTRONICS CO., LTD.

CLUE No.:

MODEL No.: BM9040E-0327-16

OUR PART No.:

DOCUMENT No.:

CUSTOMER	APPROVED	CHECKED

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			8/18/2021

## 2. Technical Parameter

### Measuring condition

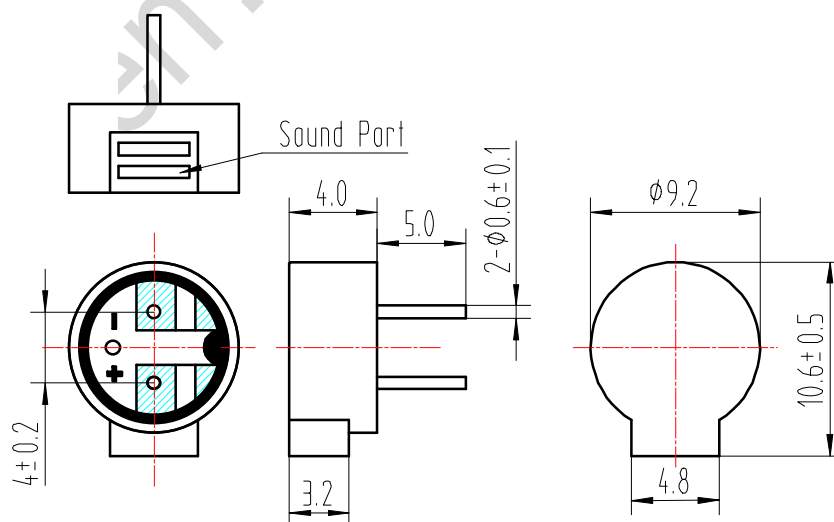
Part shall be measured under a condition (Temperature: 5~35°C, Humidity: 45%~85%R.H., Atmospheric pressure: 860 ~1060hPa) unless the standard condition (Temperature: 25±3°C, Humidity: 60±10%R.H. Atmospheric pressure: 860 ~1060hPa) is regulated to measure.



1	Rated Voltage	3Vo-p
2	Operating Voltage	2-5Vo-p
3	Rated Current	Max.80mA ,at 2731Hz 50% duty Square Wave 3Vo-p
4	Sound Output at 10cm	Min. 85dB,at 2731Hz 50% duty Square Wave 3Vo-p
5	Coil Resistance	16±4Ω
6	Resonant Frequency	2731Hz
7	Operating Temperature	-20°C~+70°C
8	Store Temperature	-30°C~+80°C
9	Net Weight	Approx 0.7g
10	RoHS	Yes

## 3. Dimensions

Unit: mm



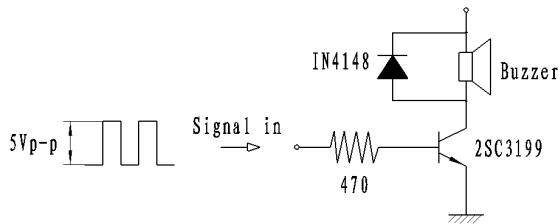
\*Unit: mm; Tolerance:  $\pm 0.5$ mm Except Specified

\*Housing Material: Black PBT

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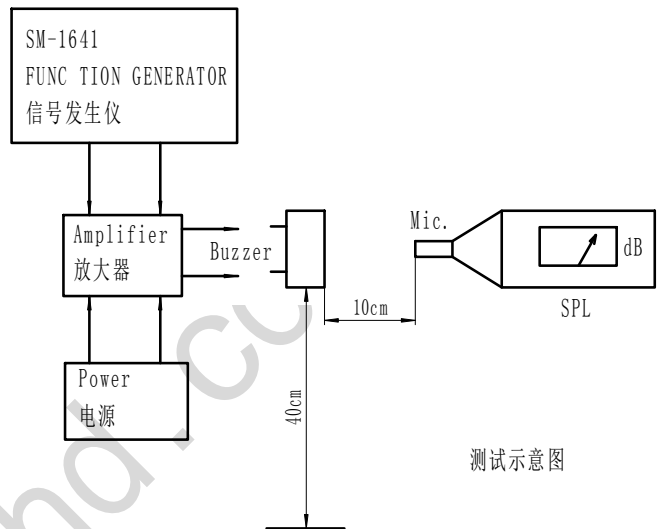
#### 4. Electrical And Acoustical Measuring Condition

##### Recommended Driving Circuit



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

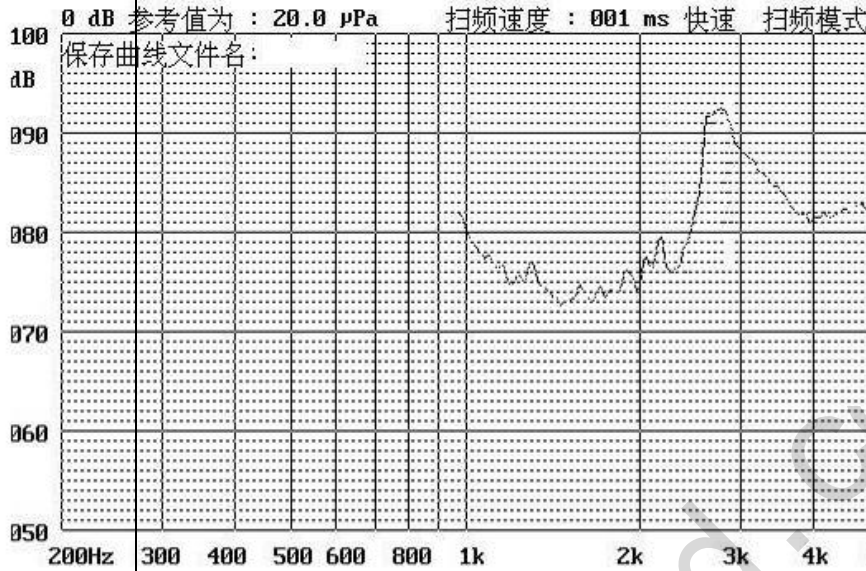
##### Recommended Setting



测试示意图

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## 5. Frequency Response



3V<sub>o-p</sub> 50% duty Square wave, 10cm ● ●

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## 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  $25 \pm 10^\circ\text{C}$ . 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  $+80^\circ\text{C}$  for 96 hours.

### 6.3 Low Temperature Test

The part shall be capable of with standing a storage temperature of  $-30^\circ\text{C}$  for 96 hours.

### 6.4 Humidity Test

Temperature:  $+40^\circ\text{C} \pm 3^\circ\text{C}$  Relative Humidity: 90%~95% Duration: 48 hours and expose to room temperature for 6 hours

### 6.5 Temperature Shock Test

Temperature:  $70^\circ\text{C}$  /1hour  $\rightarrow$   $25^\circ\text{C}$ /3hours  $\rightarrow$   $-30^\circ\text{C}$ /1hour  $\rightarrow$   $25^\circ\text{C}$ /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.)

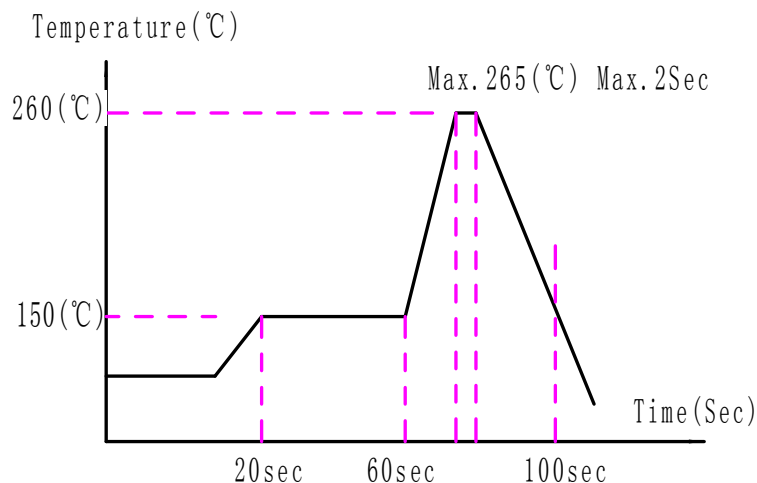
### 6.7 Vibration Test

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



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## 8. Packing

包装要求	1.吸塑包装, 100PCS/盒 吸塑盒料号: F6-409 2.内盒: 2000PCS/盒 料号: F6-088-1 3.外箱 8000PCS/箱 料号: F6-088	
唛头要求	内盒: 按客户订单要求	外箱: 按客户订单要求

### 1.PVC 盒包装, 100PCS/盒



2. 20 盒/摞 2000PCS/摞 下面垫一个纸板, 上面放一个空 PVC 盒后放一个纸板, 胶带如图打井字形, 套塑料袋, 放干燥剂后封袋



3. 封好袋子的产品放入内盒, 四盒/箱  
外箱 8000PCS/箱 四盒/箱



	包装名称	包装数量(pcs)	包装尺寸(mm)
1	PVC盒	100	180×180×20
2	一盒	2000	200×200×240
3	箱子	8000	420×420×250