



**APPROVAL SHEET
FOR
MAGNETIC BUZZER**

深圳市锐创达电子有限公司

TAT ELECTRONICS CO., LTD.

CUSTOMER:

MODEL NO.: BM9040E-0527-40

OUR PART NO.:

CUSTOMER PART NO.:

CUSTOMER	APPROVED	CHECKED
SIGNECTURE (Customer)	SIGNECTURE (Company)	

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Specification for Electro-Magnetic Buzzer (Pin Type)			Page 2 of 4
			Des. / Chk.
Model No.:	BM9040E-0527-40	Part No.	Li YanFei / Jiang Yin
			8/31/2021 / 8/31/2021

1. Technical Parameter

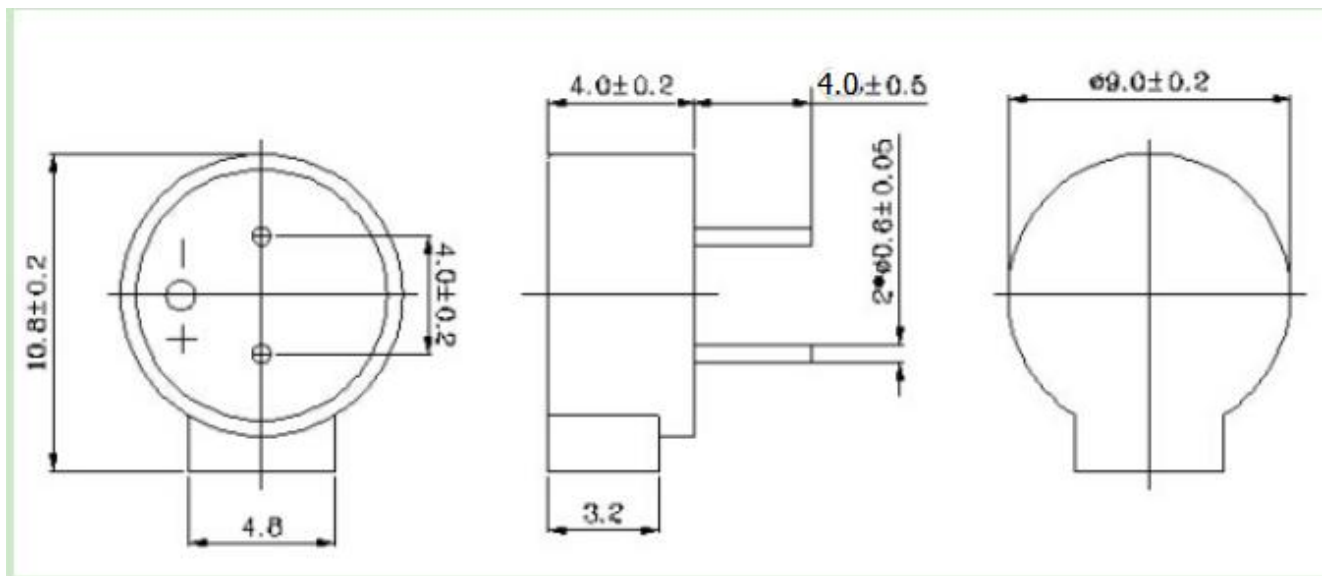
Measuring condition

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	5 Vo-p
2	Operating Voltage	4~6 Vo-p
3	Rated Current	Max.70mA ,at 2731Hz 50% duty Square Wave 5Vo-p
4	Sound Output at 10cm	Min. ≥87dB,at 2731Hz 50% duty Square Wave 5Vo-p
5	Coil Resistance	40±4Ω
6	Resonant Frequency	2731Hz
7	Operating Temperature	-20°C~+70°C
8	Store Temperature	-30°C~+80°C
9	Net Weight	Approx 0.8g
10	RoHS	Yes

2. Dimensions

Unit: mm



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

*Housing Material: Black PPO

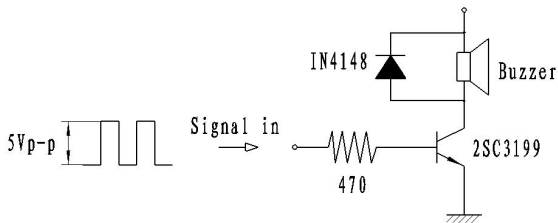
**Terminal plate: Tin Plating Cu



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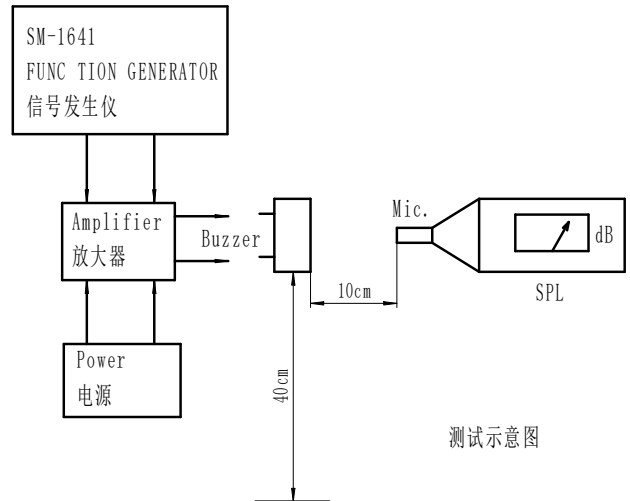
3. Electrical And Acoustical Measuring Condition

Recommended Driving Circuit



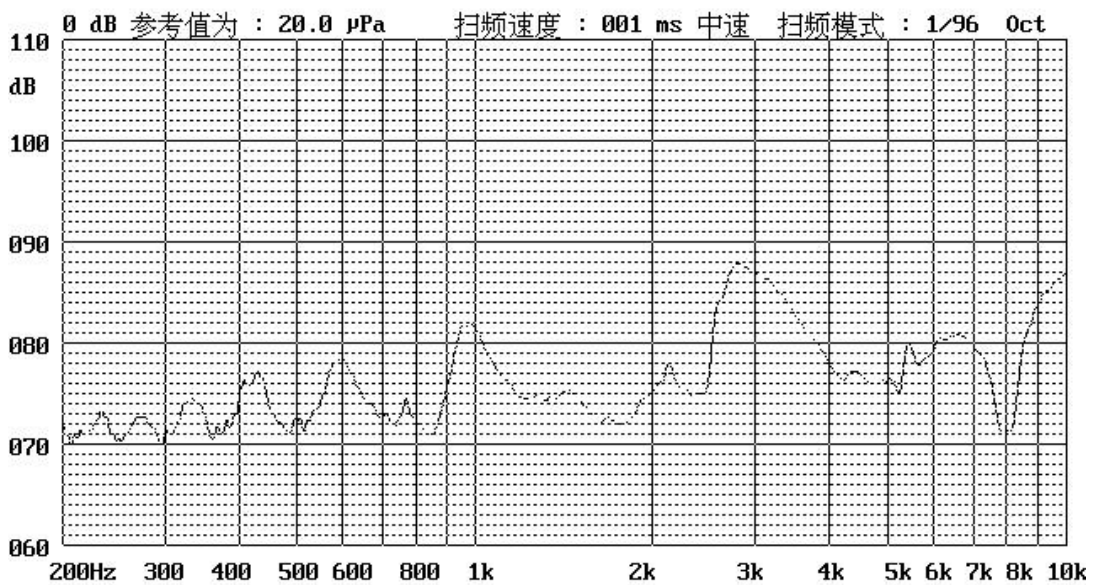
Resonant frequency, 1/2 duty cycle. Square wave.
Signal amplitude should be large enough to saturate the transistor.

Recommended Setting



测试示意图

4. Frequency Response



5Vo-p 50% duty Square wave, 10cm



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5. 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

5.1 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.

5.2 High Temperature Test

The part shall be capable of with standing a storage temperature of $+80^\circ\text{C}$ for 96 hours.

5.3 Low Temperature Test

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

5.4 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

5.5 Temperature Shock Test

Temperature: 70°C /1hour \rightarrow 25°C /3hours \rightarrow -30°C /1hour \rightarrow 25°C /3hours (1cycle)
Total cycle: 10 cycles

5.6 Drop Test

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

5.7 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.

6. Recommended the wave soldering temperature

