



APPROVAL SHEET
FOR
MAGNETIC BUZZER

深圳市銳創達電子有限公司

TAT ELECTRONICS CO. LTD.

CUSTOMER:

PART NUMBER: BMC1370S-1235

CUSTOMER PART NO.:

CUSTOMER	APPROVED	CHECKED
SIGNECTURE (Customer)	SIGNECTURE (Company)	

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Specification for magnetic buzzer SMD Type		Update/09A05	Page 2 of 4
		Des.	Chk.
Model No.:	BMC1370S-1235	Li YanFei	Jiang Yin
		11/18/2020	11/18/2020

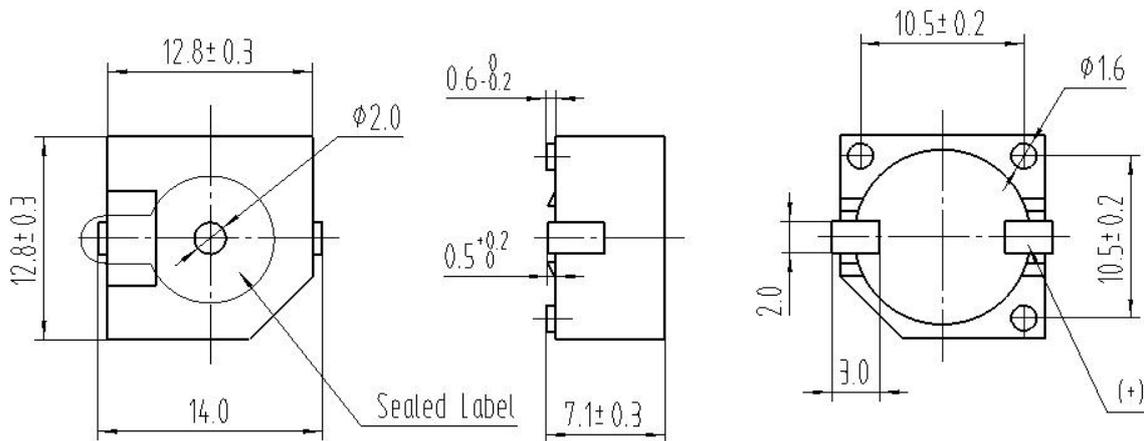
1. SPECIFICATION

Magnetic Buzzer SMD

1	Dimension	12.8×12.8×7.1
2	Net Weight	Approx 1.5g
3	Rated Voltage	12VDC
4	Operating Voltage	5-24VDC
5	Rated Current	Max.30mA ,at 12VDC
6	Sound Output	Min. 85dB,at 12VDC,10cm
7	Resonant Frequency	3500±300Hz
8	Tone	Continuous
9	Operating Temperature	-20℃~+70℃
10	Store Temperature	-30℃~+80℃

Dimensions

Unit: mm



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

*Housing Material: Gray LCP



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		Des.	Chk.
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2. 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

2.1 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.

2.2 High Temperature Test

The part shall be capable of with standing a storage temperature of $+85^\circ\text{C}$ for 96 hours.

2.3 Low Temperature Test

The part shall be capable of with standing a storage temperature of -40°C for 96 hours.

2.4 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

2.5 Temperature Shock Test

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

2.6 Drop Test

Standard Packaging From 1.2m (Drop on hard wood or board of 5cm thick, three sides, six plain.)

2.7 Vibration Test

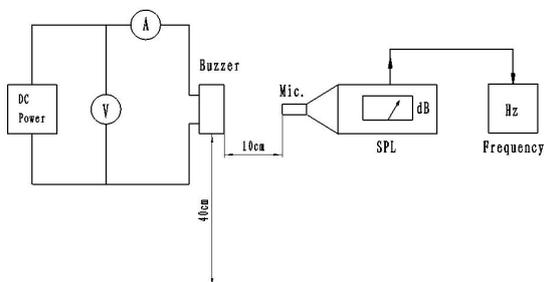
Vibration: 1000cycles /min. Amplitude: 1.5mm, Duration: 1 hour in each 3 axes

Note:

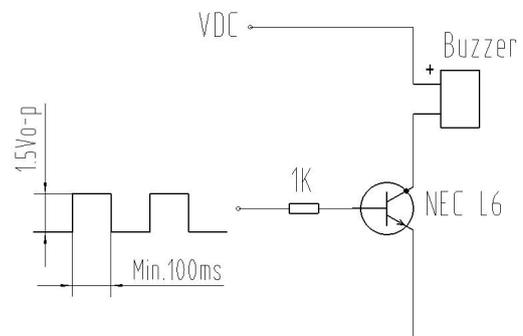
As this product is not protected from foreign material entering, please make sure that any foreign materials (e.g. magnetic powder, washing solvent, flux, corrosive gas) do not enter this product in your production processes. The functional degradation (e.g. SPL down) may occur if foreign material enter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

3. Electrical And Acoustical Measuring Condition

3.1 Recommended Setting



3.2 Recommended Test Circuit



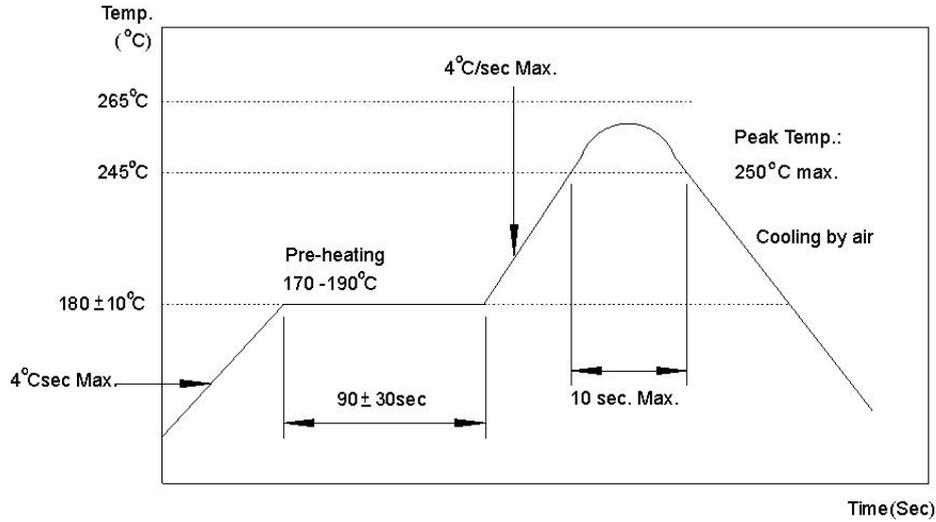


Specification for magnetic buzzer SMD Type		Update/09A05	Page 4 of 4
		Des.	Chk.
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4. Surface mounting condition

5.1 Reflow soldering

Recommendable reflow soldering condition is as follows.



- Note:** (1) In automated mounting of the SMD sound transducers on PCB, any bending, expanding and pulling forces or shocks against the SMD sound transducers shall be kept minimum to prevent them from electrical failures and mechanical damages of the devices.
- (2) In the reflow soldering, too high soldering temperatures and too large temperature Gradient such as rapid heating or cooling may cause electrical failures and mechanical damages of the devices.

5. Packing

5.1 Dimension Of Carrier Tape

