



APPROVAL SHEET  
FOR  
MAGNETIC BUZZER

深圳市銳創達電子有限公司

TAT ELECTRONICS CO. LTD.

CUSTOMER:

PART NUMBER: BMC1275-0527

CUSTOMER PART NO.:

CUSTOMER	APPROVED	CHECKED
SIGNECTURE (Customer)	SIGNECTURE (Company)	

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<b>Specification for Electro-Magnetic Buzzer With built-in oscillating circuit (Pin Type)</b>		Update/09A09	Page 2 of 5
		Des.	Chk.
<b>Model No.:</b>	BMC1275-0527	Li YanFei	Jiang Yin
		7/24/2020	7/24/2020

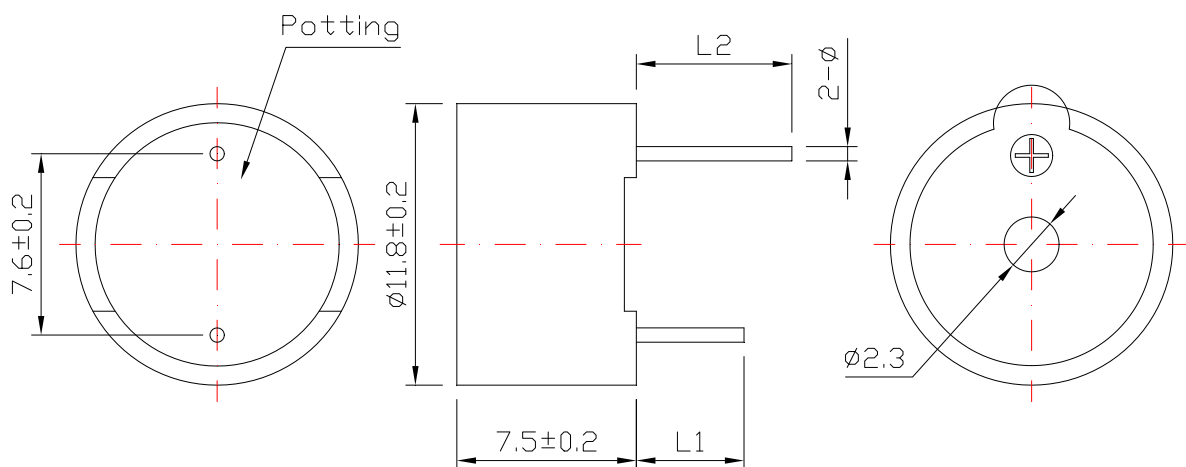
## 1. SPECIFICATION

Electro-Magnetic Buzzer  
Built-in oscillating circuit

1	Dimension	$\Phi 12.0 \times H7.5$
2	Net Weight	Approx 1.5g
3	Rated Voltage	5.0VDC
4	Operating Voltage	3-7 VDC
5	Rated Current	Max. 30mA ,at 5VDC
6	Sound Output	Min. 85dB, at 5.0VDC, 10cm
7	Resonant Frequency	$2700 \pm 300\text{Hz}$
8	Tone	Continuous
9	Operating Temperature	$-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$
10	Store Temperature	$-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$
11	Pin	$L1=4.0 \pm 0.5, L2=5.5 \pm 0.5, \Phi=0.6 \pm 0.1\text{mm}$

### Dimensions

Unit: mm



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

\*Housing Material: Black PBT



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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  $-40^\circ\text{C}$  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:  $70^\circ\text{C}$  /1hour  $\rightarrow$   $25^\circ\text{C}$ /3hours  $\rightarrow$   $-30^\circ\text{C}$ /1hour  $\rightarrow$   $25^\circ\text{C}$ /3hours (1cycle)  
Total cycle: 10 cycles

### 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

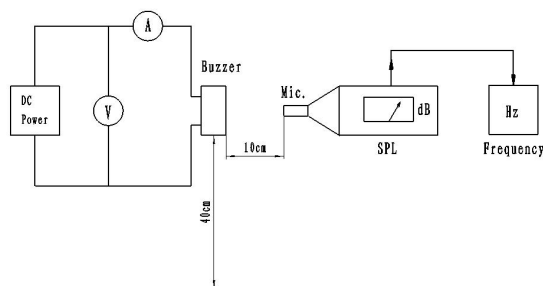
Vibration: 1000cycles /min. Amplitude: 1.5mm, Duration: 1 hour in each 3 axes

#### Note:

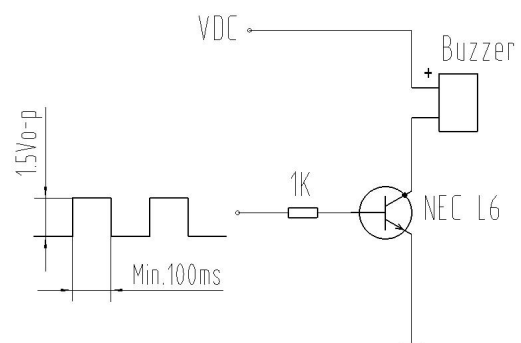
As this product is not protected from foreign material entering, please make sure that any foreign materials (e.g. magnetic powder, washing solvent, flux, corrosive gas) do not enter this product in your production processes. The functional degradation (e.g. SPL down) may occur if foreign material enter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

## 3. Electrical And Acoustical Measuring Condition

### 3.1 Recommended Setting



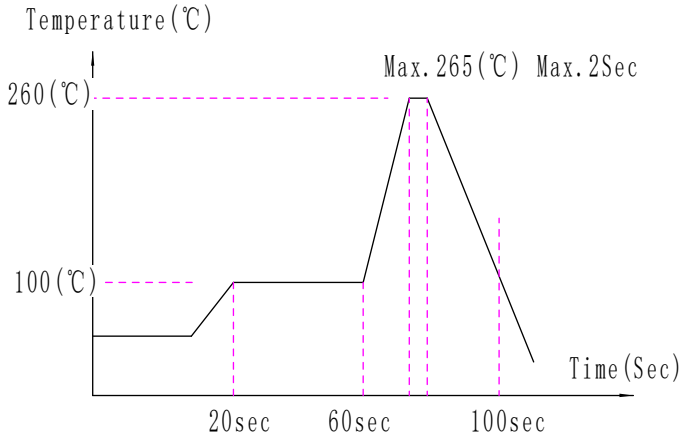
### 3.2 Recommended Test Circuit





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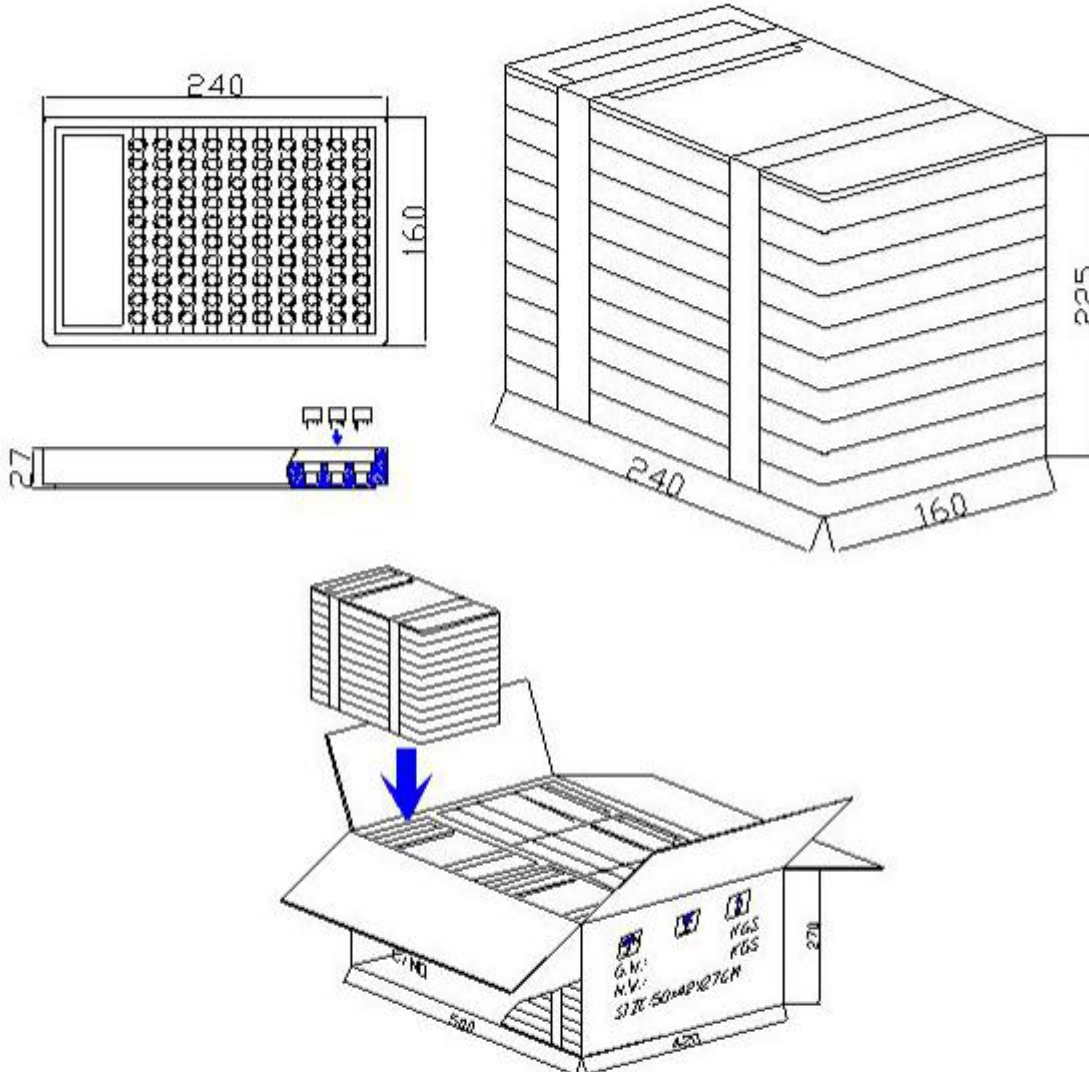
#### 4. Recommended the wave soldering temperature





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## 5. Dimension Of Carrier Tape



	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