



APPROVAL SHEET  
FOR  
PIEZO BUZZER

深圳市銳創達電子有限公司

*TAT ELECTRONICS CO. LTD.*

CUSTOMER:

PART NUMBER: BP1475A-0540

CUSTOMER PART NO.:

CUSTOMER	APPROVED	CHECKED
	钟云莎	蒋寅
SIGNECTURE (Customer)	SIGNECTURE (Company)	

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<b>Specification for Piezoelectric Ceramic Buzzer (Pin Type)</b>		Update/09B04	Page 2 of 4
		Des.	Chk.
<b>Model No.:</b>	BP1475A-0540	Li YanFei	Jiang Yin
		12/1/2021	12/1/2021

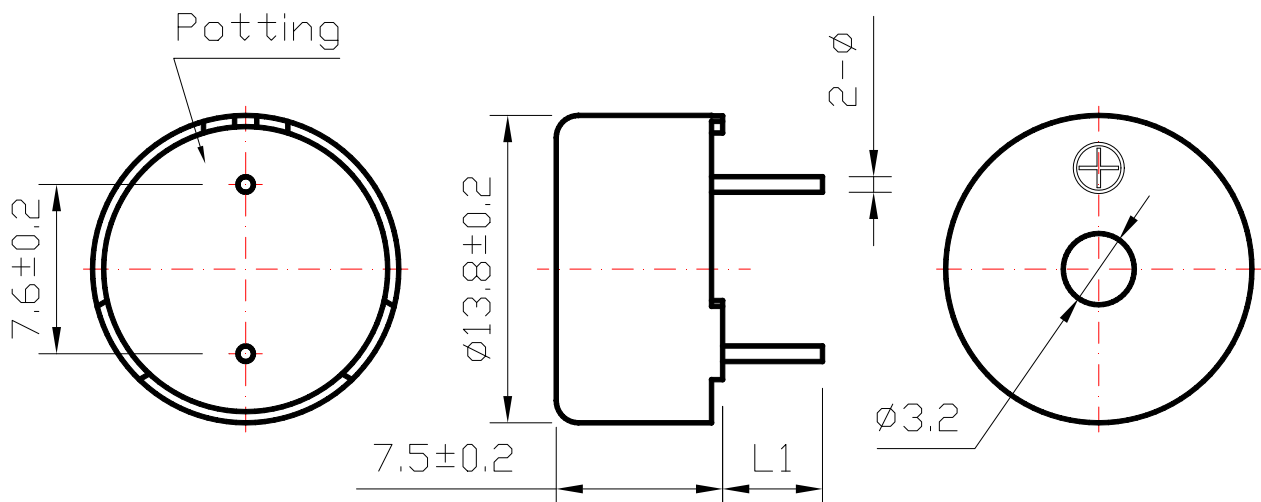
## 1. SPECIFICATION

### Piezoelectric Ceramic Element

1	Dimension	Φ13.8×H7.5
2	Net Weight	Approx 1.0g
3	Resonant Frequency	4000±500Hz
4	Operating Voltage	1~25Vp-p
5	Rated Current	Max. 5mA ,at 4.0KHz 50% duty Square Wave 5Vp-p
6	Sound Output	Min. 85dB,at 4.0KHz 50% duty Square Wave 5Vp-p
7	Capacitance	15000pF±30%,at 120Hz
8	Operating Temperature	-20℃~+70℃
9	Store Temperature	-30℃~+80℃
10	Pin	L1=5.0±0.5 ,Φ=0.7±0.1mm

### Dimensions

Unit: mm



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

\*Housing Material: Black Noryl



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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

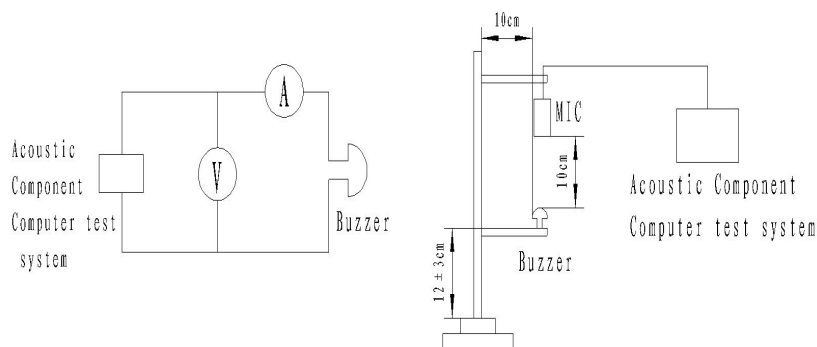
Vibration: 1000cycles /min. Amplitude: 1.5mm, Duration: 1 hour in each 3 axes

#### 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

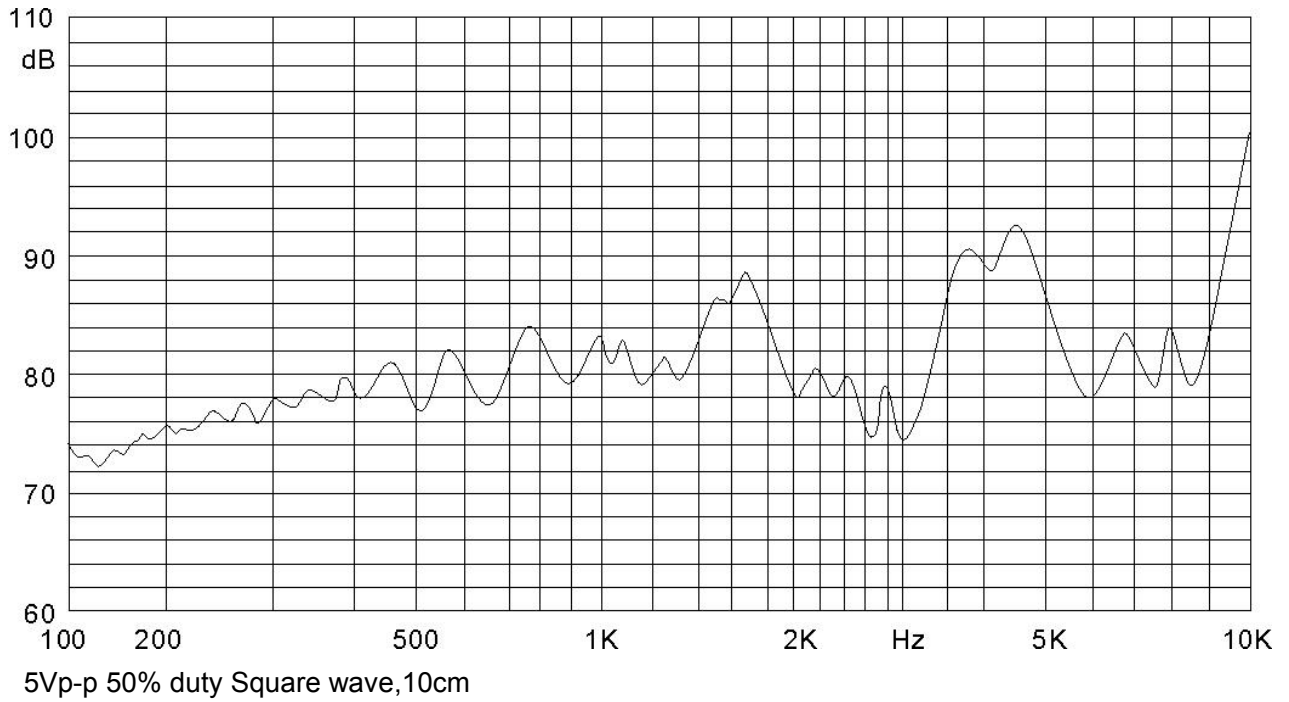
### 3.1 Recommended Setting





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#### 4. Frequency Response



#### 5. Recommended the wave soldering temperature

