



APPROVAL SHEET
FOR
PIEZO BUZZER

深 圳 市 銳 創 達 電 子 有 限 公 司

TAT ELECTRONICS CO. LTD.

CUSTOMER:

PART NUMBER: BP1275B-0540

CUSTOMER PART NO.:

CUSTOMER	APPROVED	CHECKED
	钟云莎	蒋 寅
SIGNECTURE (Customer)		SIGNECTURE (Company)

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Specification for Piezoelectric Ceramic Buzzer (Pin Type)		Update/09B10	Page 2 of 4
		Des.	Chk.
Model No.:	BP1275B-0540	Li YanFei	Jiang Yin
		6/21/2025	6/21/2025

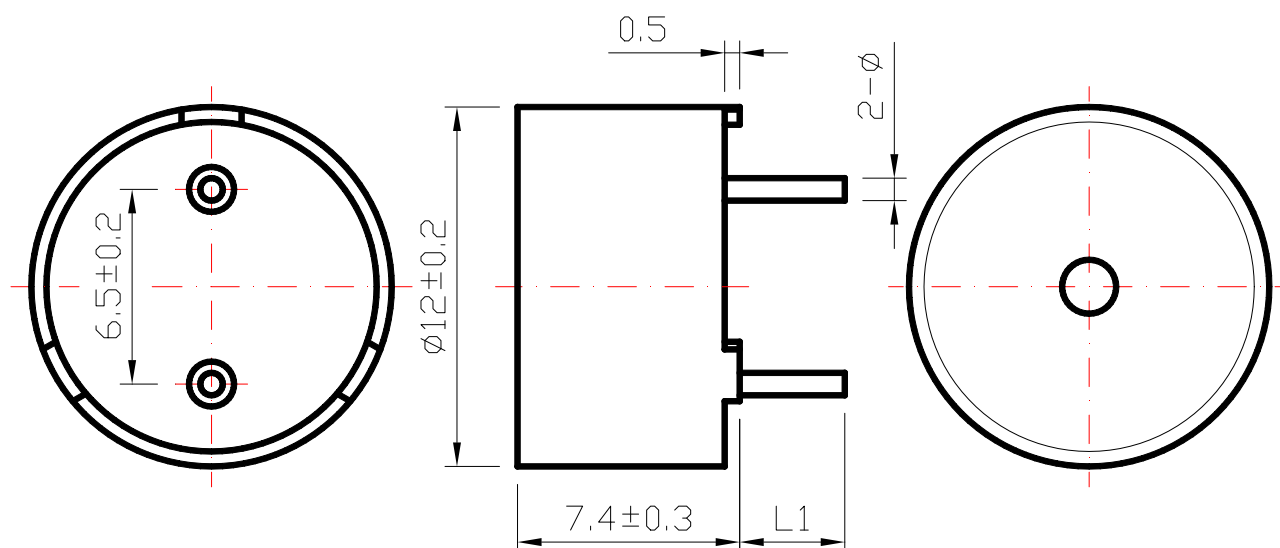
1. SPECIFICATION

Piezoelectric Ceramic Element

1	Dimension	$\Phi 12.0 \times H7.4$
2	Net Weight	Approx 0.8g
3	Resonant Frequency	$4000 \pm 500\text{Hz}$
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	$10000\text{pF} \pm 30\%$,at 120Hz
8	Operating Temperature	$-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$
9	Store Temperature	$-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$
10	Pin	$L=4.5 \pm 0.5, \Phi=0.7 \pm 0.1\text{mm}$

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°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

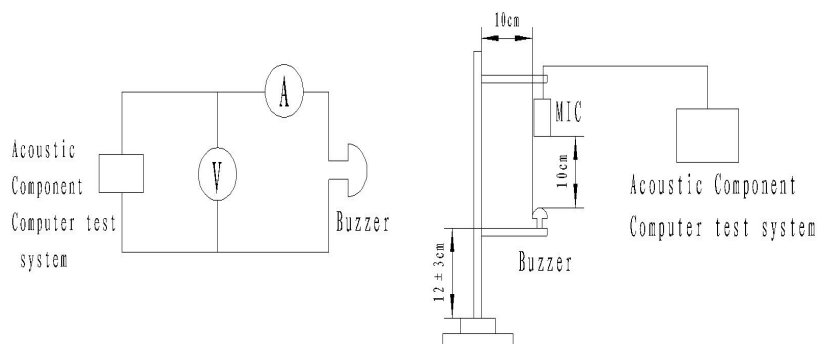
Vibration: 1000cycles /min. Amplitude: 1.5mm, Duration: 1 hour in each 3 axes

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

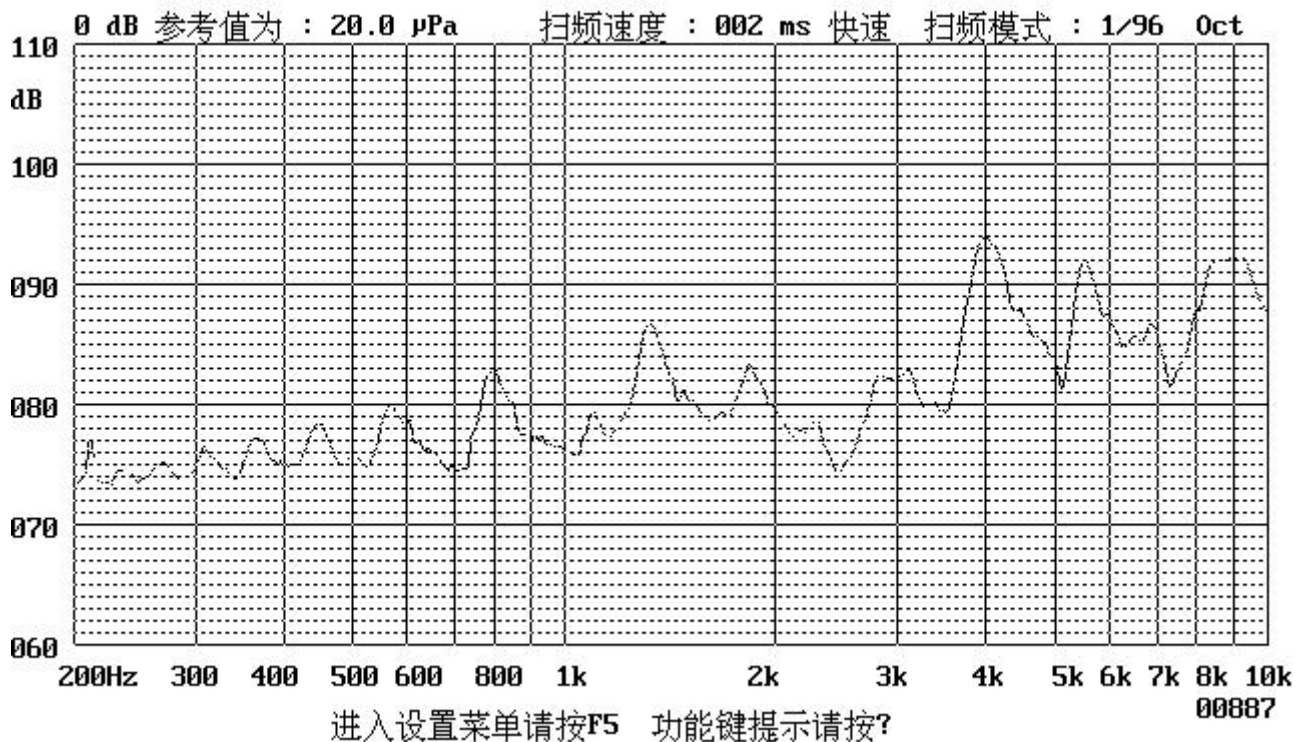
3.1 Recommended Setting





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4. Frequency Response



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

5. Recommended the wave soldering temperature

