



SPECIFICATIONS FOR APPROVAL

PIEZO BUZZER

	MODEL NO.:	DSTPB-1275P-45-12
	CUSTOMER PART NO.:	

SIGNATURE AND COMPANY CHOP FOR APPROVAL:	
APPROVAL DATE:	

NO.	DATE	REVISION RECORD		CAUSE OF REVISION	SIGN. REV.
		BEFORE REVISION	AFTER REVISION		
1					
2					
3					
4					

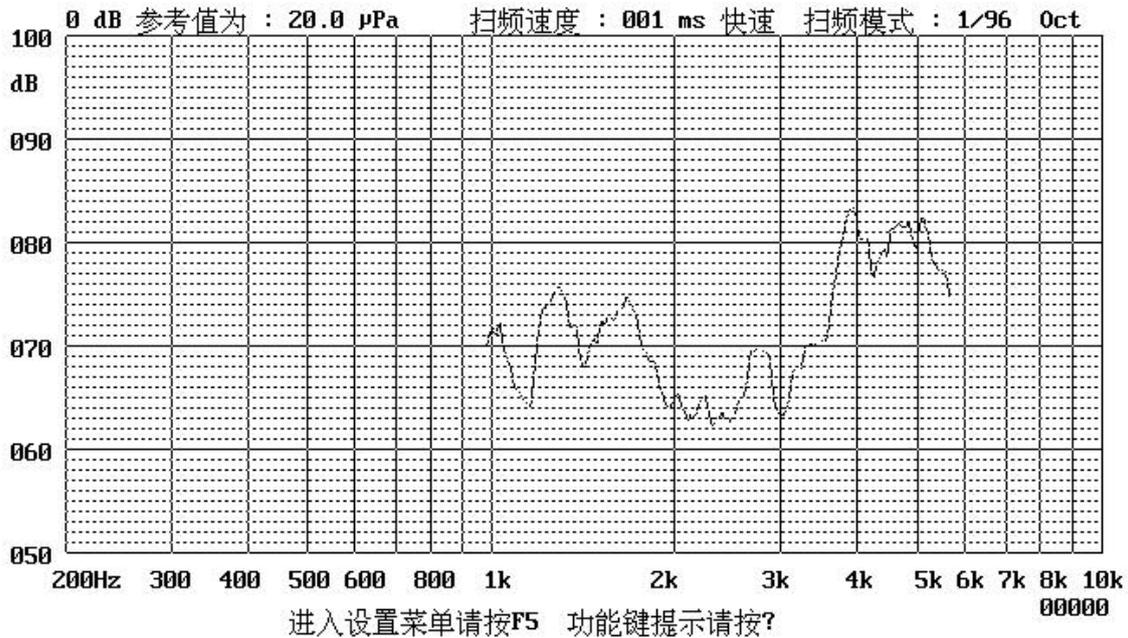
1. Scope

This Specification is applied to the piezo buzzer assembly which is used as alert in alarm system.

2. Electrical Specification

1	Resonant Frequency	4500±500Hz
2	Operating Voltage	1~25 Vp-p
3	Rated Current	Max.5mA , At 4.5 kHz 50% duty Square Wave 12Vp-p
4	Sound Output at 10cm	Min. 80dB, At 4.5 kHz 50% duty Square Wave 12Vp-p
5	Capacitance	10000±30% pF At 1KHz
6	Operating Temperature	-20°C ~+70°C
7	Store Temperature	-30°C ~+80°C
8	Net Weight	Approx 0.8g
9	RoHS	Yes

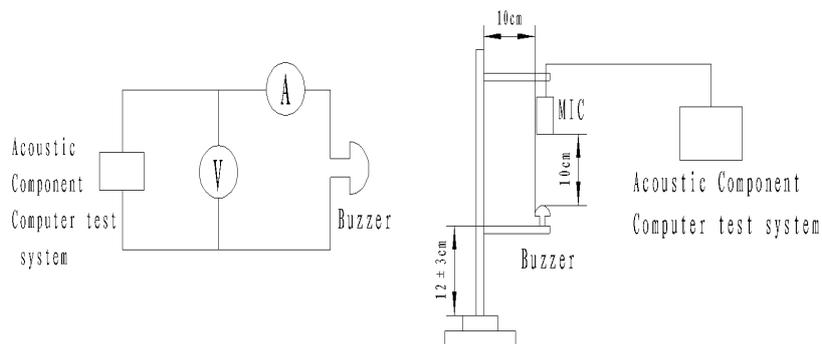
3. Frequency response curve



12Vp-p 50% duty Square wave, 10cm

4. Test method

Standard test fixture



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

A. 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.

B. High Temperature Test

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

C. Low Temperature Test

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

D. 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

E. Temperature Shock Test

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

F. Drop Test

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

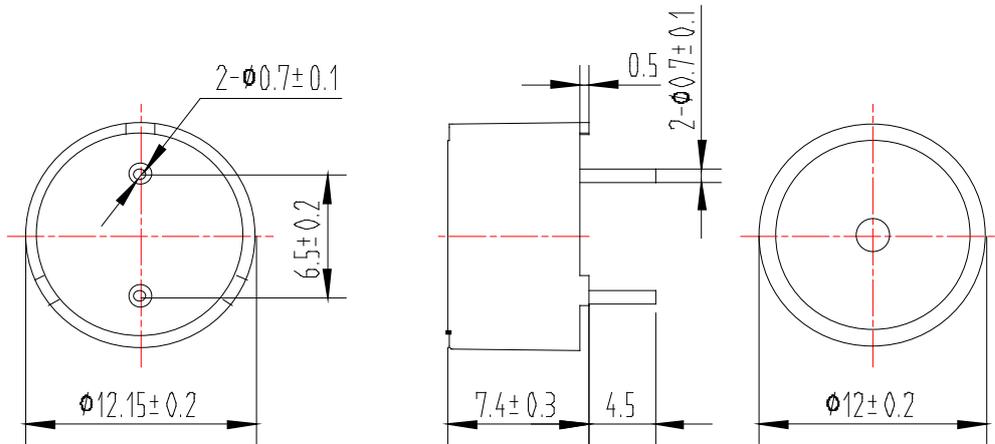
G. Vibration Test

Vibration: 1000 cycles /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 enters it.

6. Dimension



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

*Housing Material: Black PBT