

# Electromagnetic Buzzer

## 1. Scope

This specification is applied to Magnetic Buzzer (Self-Drive Type)

The product described below is used as a buzzer in various alarm systems

## 2. Basic Condition

2.1 Rated Voltage:6VDC

2.2 Operating Voltage:4~8VDC

2.3 Operating Temperature Range:-40 °C~+85 °C

2.4 Storage Temperature Range:-40°C~+90 °C



## 3. Electrical Characteristics

3.1 Sound Press Level:Level:  $\geq 85$ dB at 10cm / 6VDC

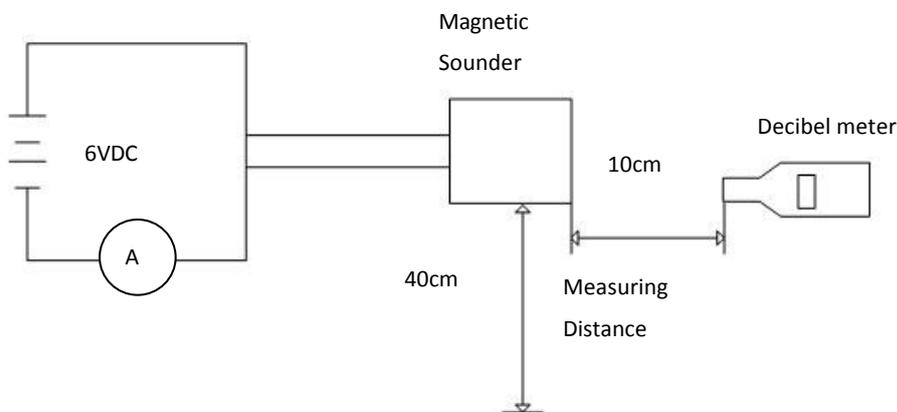
3.2 Consumption Current:  $\leq 30$ mA at 6VDC

3.3 Resonate Frequency:2300Hz $\pm$ 500Hz

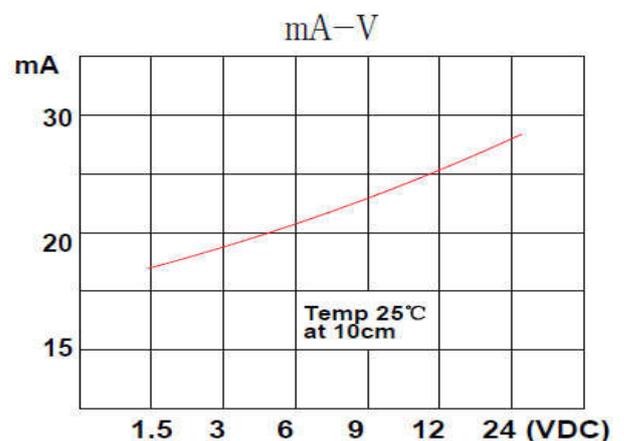
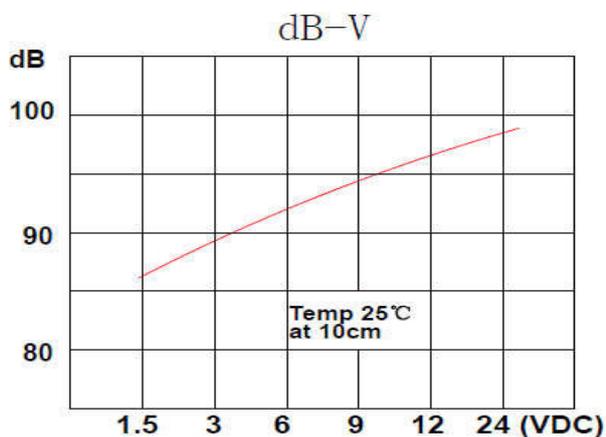
3.4 Tone Nature:Continuous Sound

3.5 Material:PBT

## 4. Measuring Method



## 5. Sound Press Level & Consumption Current Curve



## TEST REPORT

#	dB	mA	Hz
1	96	27.2	2415
2	96	22.1	2487
3	95	24.5	2468
4	96	23.3	2411
5	96	22.2	2435

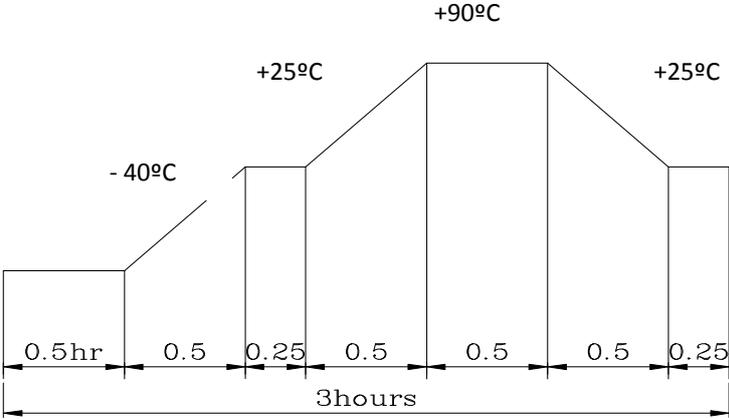
### Remark:

(1)Sound Press Level :  $\geq 85$ dB at 10cm / 6VDC

(2)Consumption Current :  $\leq 30$ mA at 6VDC

(3)Resonate Frequency : 2300Hz $\pm$ 500

## 6. Environment Test Method

NO.	ITEM	TEST CONDITION AND REQUIREMENT
1	High Temperature Test (Storage)	After being placed in a chamber with $90\pm 2^{\circ}\text{C}$ for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: $\pm 10\text{dB}$ .
2	Low Temperature Test (Storage)	After being Placed in a chamber with $-40\pm 2^{\circ}\text{C}$ for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: $\pm 10\text{dB}$ .
3	Humidity Test	After being Placed in a chamber with 90-95% R.H. at $40\pm 2^{\circ}\text{C}$ for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: $\pm 10\text{dB}$ .
4	Temperature Cycle Test	<p>The part shall be subjected to 5 cycles. One cycle shall be consist of:</p>  <p>Allowable variation of SPL after test: <math>\pm 10\text{dB}</math>.</p>
5	Drop Test	Drop on a hard wood board of 4cm thick, any directions, 6 times, at the height of 100cm. Allowable variation of SPL after test: $\pm 10\text{dB}$ .
6	Vibration Test	After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours. Allowable variation of SPL after test: $\pm 10\text{dB}$ .
7	Solder ability Test	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of $+300\pm 5^{\circ}\text{C}$ for $3\pm 1$ seconds. 90% min. lead terminals shall be wet with solder (Except the edge of terminals).
8	Terminal / Wire Strength Pulling Test	The force of 9.8N(1.0kg) is applied to each terminal in axial direction for 10 seconds. No visible damage and cutting off.

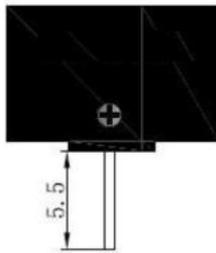
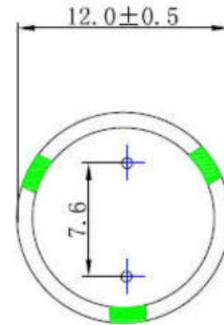
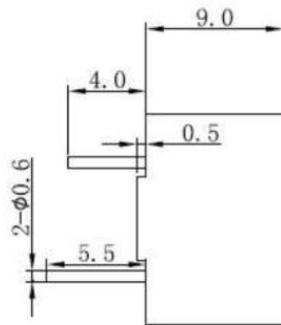
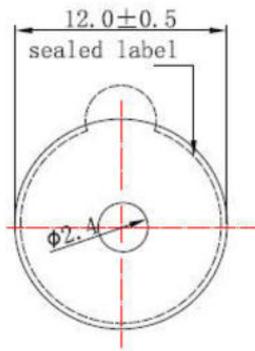
## 7. Reliability Test

Continuous life test:

250 Hours continuous operating at  $+90^{\circ}\text{C}$  with maximum rated voltage applied. Intermittent life test:

Aduty cycle of 1 minute on, 5 minutes off, a minimum of 10000 times at temperature  $+25^{\circ}\text{C}\pm 2$

## 8. Dimensions



Tolerance  $\pm 0.5\text{mm}$