## 1.Scope

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

The product describe below are used for buzzer in various alarm systems.

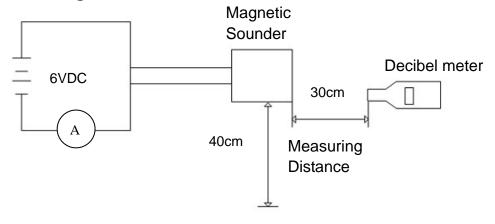
#### 2.Basic Condition

- 2.1 Rated Voltage:6VDC
- 2.2 Operating Voltage:4~8VDC
- 2.3 Operating Temperature Range:-20°C ~+70°C
- 2.4 Storage Temperature Range:-30°C~+80°C

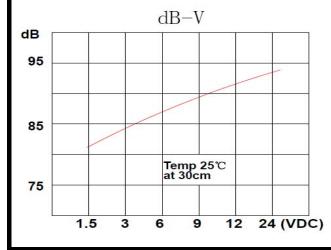
### 3. Electrical Characteristics

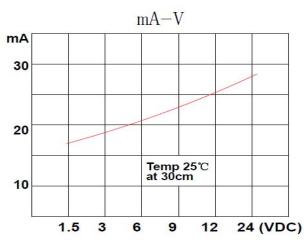
- 3.1 Sound Press Level: ≥85dB at 30cm / 6VDC
- 3.2 Consumption Current: ≤30mA at 6VDC
- 3.3 Resonate Frequency:400Hz±100Hz
- 3.4 Tone Nature: Continuous Sound
- 3.5 Material: ABS

### 4. Measuring Method



### **5.Sound Press Level & Consumption Current Curve**





# **TEST REPORT**

Product No:61-211-0 Date:

# c	IB	mA	Hz	#	dB	mA	Hz

### Remark:

(1)Sound Press Level :  $\geq\!85\text{dB}$  at 30cm / 6VDC

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

(3)Resonate Frequency: 400±100Hz

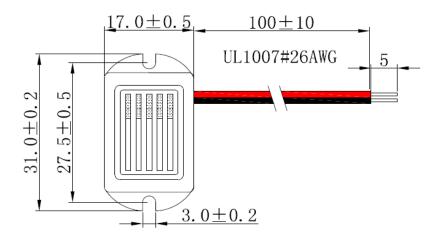
1 High Temperature Test (Storage) being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.  After being Placed in a chamber with -30±2°C for 96 hours then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.  After being Placed in a chamber with 90-95% R.H. at 40±2°C 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.	2	High Temperature Test (Storage)  Low Temperature Test (Storage)	After being placed in a chamber with 80±2°C for 96 hours and then being placed in normal condition for 2 hours.  Allowable variation of SPL after test: ±10dB.  After being Placed in a chamber with -30±2°C for 96 hours and then being placed in normal condition for 2 hours.  Allowable variation of SPL after test: ±10dB.  After being Placed in a chamber with 90-95% R.H. at 40±2°C for 96 hours and then being placed in normal condition for 2 hours.
1 High Temperature Test (Storage) being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.  2 Low Temperature Test (Storage) After being Placed in a chamber with -30±2°C for 96 hours then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.  3 Humidity Test Placed in a chamber with 90-95% R.H. at 40±2°C 96 hours and then being placed in normal condition for 2 hours Allowable variation of SPL after test: ±10dB.  The part shall be subjected to 5 cycles. One cycle shall be condition of:  +80°C  +25°C  Temperature Cycle Test  - 30°C  - 30°C  - 30°C  - 30°C  - 30°C  - 30°C  - 30°C	2	Test (Storage)  Low Temperature Test (Storage)	being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.  After being Placed in a chamber with -30±2°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.  After being Placed in a chamber with 90-95% R.H. at 40±2°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.
Test (Storage)    Definity placed in Normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.	2	Test (Storage)  Low Temperature Test (Storage)	Allowable variation of SPL after test: ±10dB.  After being Placed in a chamber with -30±2°C for 96 hours and then being placed in normal condition for 2 hours.  Allowable variation of SPL after test: ±10dB.  After being Placed in a chamber with 90-95% R.H. at 40±2°C for 96 hours and then being placed in normal condition for 2 hours.  Allowable variation of SPL after test: ±10dB.
Allowable variation of SPL after test: ±10dB.  After being Placed in a chamber with -30±2°C for 96 hours then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.  After being Placed in a chamber with 90-95% R.H. at 40±2°C 96 hours and then being placed in normal condition for 2 hours Allowable variation of SPL after test: ±10dB.  The part shall be subjected to 5 cycles. One cycle shall be condition of:  Temperature  4 Cycle Test  Temperature  - 30°C  - 30°C  - 25°C  - 25°C		Low Temperature Test (Storage)	After being Placed in a chamber with -30±2°C for 96 hours and then being placed in normal condition for 2 hours.  Allowable variation of SPL after test: ±10dB.  After being Placed in a chamber with 90-95% R.H. at 40±2°C for 96 hours and then being placed in normal condition for 2 hours.  Allowable variation of SPL after test: ±10dB.
then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.  After being Placed in a chamber with 90-95% R.H. at 40±2°C 96 hours and then being placed in normal condition for 2 hours Allowable variation of SPL after test: ±10dB.  The part shall be subjected to 5 cycles. One cycle shall be condition of:  +80°C  Temperature  4 Cycle Test  Temperature  - 30°C  - 30°C  - 30°C  - 30°C		Test (Storage)	then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.  After being Placed in a chamber with 90-95% R.H. at 40±2°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.
Allowable variation of SPL after test: ±10dB.  After being Placed in a chamber with 90-95% R.H. at 40±2°C 96 hours and then being placed in normal condition for 2 hours Allowable variation of SPL after test: ±10dB.  The part shall be subjected to 5 cycles. One cycle shall be condition of:  +80°C  Temperature  Cycle Test  Temperature  Cycle Test			Allowable variation of SPL after test: ±10dB.  After being Placed in a chamber with 90-95% R.H. at 40±2°C for 96 hours and then being placed in normal condition for 2 hours.  Allowable variation of SPL after test: ±10dB.
After being Placed in a chamber with 90-95% R.H. at 40±2°C 96 hours and then being placed in normal condition for 2 hours Allowable variation of SPL after test: ±10dB.  The part shall be subjected to 5 cycles. One cycle shall be condition of:  +80°C  Temperature  Cycle Test  Temperature  Cycle Test	3	Humidity Test	After being Placed in a chamber with 90-95% R.H. at 40±2°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.
Humidity Test  96 hours and then being placed in normal condition for 2 hours Allowable variation of SPL after test: ±10dB.  The part shall be subjected to 5 cycles. One cycle shall be condition of:  +80°C  +25°C  Temperature Cycle Test  - 30°C  - 30°C  - 30°C  - 30°C  - 30°C	3	Humidity Test	96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.
Allowable variation of SPL after test: ±10dB.  The part shall be subjected to 5 cycles. One cycle shall be conof:  +80°C  Temperature Cycle Test  - 30°C  - 30°C  - 30°C  - 30°C  - 30°C  - 30°C			Allowable variation of SPL after test: ±10dB.
of: +80°C +25°C +25°C    Temperature			The part shall be subjected to 5 cycles. One cycle shall be consist
+80°C +25°C +25°C Temperature Cycle Test  0.5 0.25 0.5 0.5 0.25			
+25°C +25°C  Temperature Cycle Test  0.5hr 0.5 0.5 0.5 0.5 0.5			of:
Temperature Cycle Test  0.5hr 0.5 0.25 0.5 0.5 0.25	1		
4 Cycle Test  0.5hr 0.5 0.25 0.5 0.5 0.25	1		+25°C +25°C
4 Cycle Test  0.5hr 0.5 0.25 0.5 0.5 0.25			
Test  0.5hr 0.5 0.25 0.5 0.5 0.25		Temperature	- 30°C
0.5hr 0.5 0.25 0.5 0.5 0.25	4		
		Test	
			0.5 hr 0.5 0.25 0.5 0.5 0.25
onours -			
Allowed la variation of ODL after took (40 dD)			<b>→</b>
Allowable variation of SPL after test: ±10dB.  Drap on a hard wood board of 4cm thick, any directions, 6 times			
	_	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:
±10dB.	5	Diop iost	
	3		
		Vibration Test	After being applied vibration of amplitude of 1.5mmwith 10 to 55
	6	Vibration Test	After being applied vibration of amplitude of 1.5mmwith 10 to 55 Hz band of vibration frequency to each of 3 perpendicular
Solder ability immersed in solder bath of ±300±500 for 3±1 seconds 90% r		Vibration Test	After being applied vibration of amplitude of 1.5mmwith 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours . Allowable variation of SPL after test: ±10dB.
,			After being applied vibration of amplitude of 1.5mmwith 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours . Allowable variation of SPL after test: ±10dB.  Lead terminals are immersed in rosin for 5 seconds and then
(	6	Solder ability	After being applied vibration of amplitude of 1.5mmwith 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours . Allowable variation of SPL after test: ±10dB.  Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +300±5°C for 3±1 seconds.90% min.
Terminal / Wire	6		After being applied vibration of amplitude of 1.5mmwith 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours . Allowable variation of SPL after test: ±10dB.  Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +300±5°C for 3±1 seconds.90% min. lead terminals shall be wet with solder (Except the edge of
The force of 9.8N(1.0kg) is applied to each terminal in a	6	Solder ability Test	After being applied vibration of amplitude of 1.5mmwith 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours . Allowable variation of SPL after test: ±10dB.  Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +300±5°C for 3±1 seconds.90% min. lead terminals shall be wet with solder (Except the edge of terminals).
direction for 10 seconds. No visible damage and cutting off.	6	Solder ability	After being applied vibration of amplitude of 1.5mmwith 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours. Allowable variation of SPL after test: ±10dB.  Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +300±5°C for 3±1 seconds.90% min. lead terminals shall be wet with solder (Except the edge of terminals).  The force of 9.8N(1.0kg) is applied to each terminal in axial

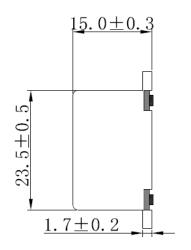
## 7.Reliability Test

Continuous life test: 250 Hours continuous operating at +70 °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 °C±2

## 8.Dimension





Tolerance ±0.5mm

## 9.Packing List

