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soberton inc.

# GT MAGNETIC BUZZER

Acoustic Product Specification

Product Number: GT-0603A-2



Release | Revision: A/2018

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This document contains the technical specifications for the magnetic buzzer.

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## Specifications

Item	Unit	Specification	Condition
Rated Voltage	Vo-p	3.0	
Operating Volt	Vo-p	2.0 ~ 4.0	
Current Consumption	mA	80 Max.	At rated voltage
Coil Resistance	Ω	16 ± 3	
Sound Pressure Level	dB	75	At 10cm at rated voltage
Oscillation Frequency	Hz	3000	Vo-p = ½ duty , square wave
Operating Temp	°C	-20 ~ +60	
Storage Temp	°C	-20 ~ +60	
Dimension	mm	φ6.6 × H3.5	See dimension
Weight	gram	0.3	
Housing Material		PPO(Black)	
Terminal		Pin type	
Environmental Protection Regulation		RoHS	

### Test condition:

Temperature: +25±2 °C    Related humidity: 65±5%

## Mechanical Characteristics

Item	Test condition	Evaluation standard
Solderability	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath at +250±5°C for 3±1 seconds	90% min. lead terminals will be wet with solder (Except the edge of terminal)
Soldering Heat Resistance	Lead terminals are immersed in soldering bath at +250±5°C for 3±1 second.	No interference in operation.
Terminal Mechanical Strength	Apply the terminal with 1Kg strength for 1 minute	No damage and cutting off
Vibration	Buzzer will be measured after being applied vibration of amplitude of 1.5mm with 10Hz to 55Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours	The value of oscillation frequency current consumption would be in ±10% compared with initial ones.
Drop test	The part only will be dropped from a height of 75cm onto a 40mm thick wooden board 3 times in 3 axes(X,Y,Z). A total of 9 times.	The SPL would be in ±10dB compared with initial one.



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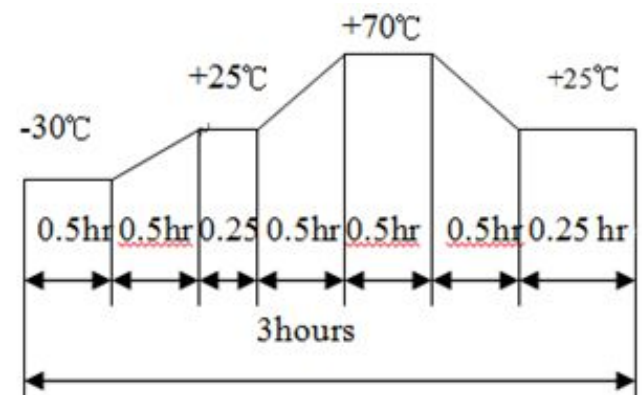
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## Environment Test

Item	Test condition	Evaluation standard
High temp. test	After being placed in a chamber at +70°C for 96 hours	Being placed for 4 hours at +25°C, buzzer will be measured.
Low temp. test	After being placed in a chamber at -30°C for 96 hours	The value of oscillation, frequency / current consumption would be in ±10% compared with initial ones.
Humidity test	After being placed in a chamber at +70°C and 90±5% relative humidity for 96 hours	The SPL would be in ±10dB compared with initial one.

Temp cycle test  
The part will be subjected to 5 cycles.  
One cycle shall consist of:



## Reliability Test

Item	Test condition	Evaluation standard
Operating life test	<b>1. Continuous life test</b> 48 hours continuous operation at +55°C with maximum rated voltage applied	After test, the part will meet specifications without any degradation in appearance and performance except SPL, after 4 hours at +25°C.
	<b>2. Intermittent life test</b> A duty cycle of 1 minute on, 1 minutes off, a minimum of 1000 times at +25±2°C and maximum rated voltage applied	The SPL would be in±10dBA compared with initial one.

### Standard test condition:

- a) Temperature: +5~+35°C
- b) Humidity: 45~85%
- c) Pressure: 860~1060mbar



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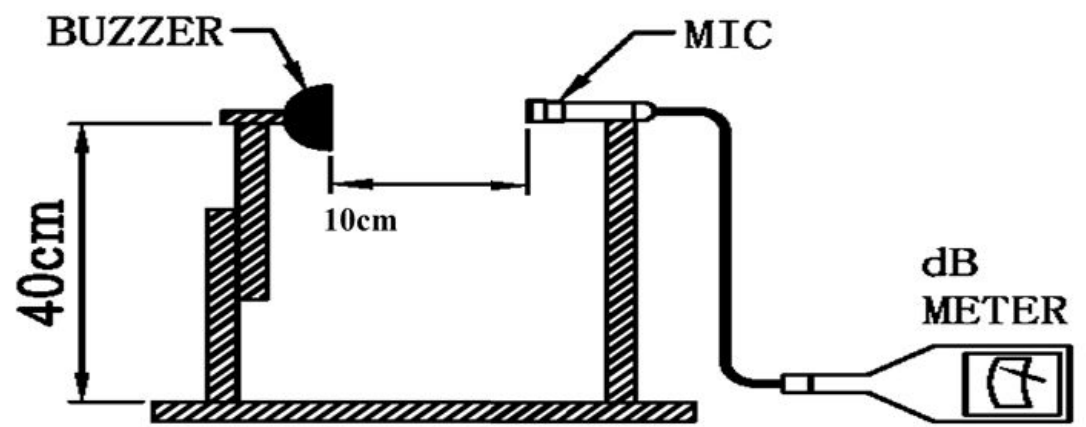
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## Measuring Method (Speaker Mode)

### S.P.L Measuring Circuit

Input Signal: 3Vo-p, 3.0KHz, Square Wave



MIC: RION S.P.L meter UC30 or equivalent

S.G: Hewlett Packard 33120A Function Generator or equivalent

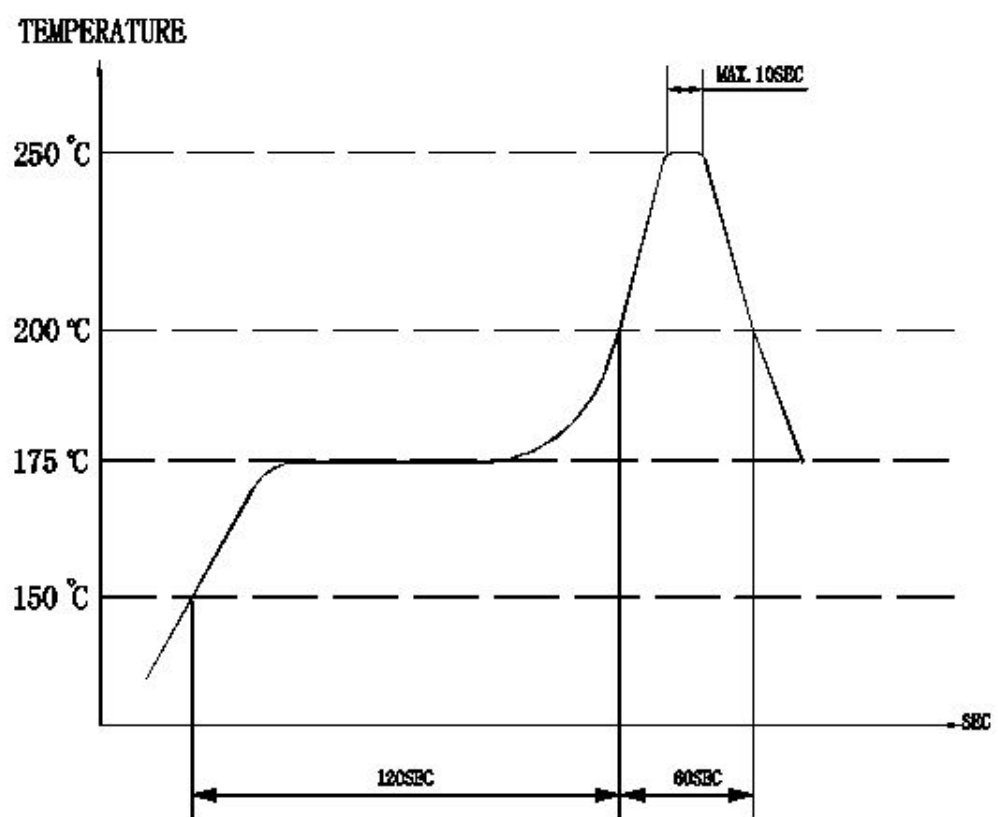
## Soldering Condition

### S.P.L Measuring Circuit

Recommended reflow soldering condition is as follows

Reflow soldering is twice

Note: It is requested that reflow soldering should be executed after heat of product goes down to normal temperature



Heat resistant line (Use when heat resistant reliability test is performed)

### Manual Soldering

Manual soldering temperature 350 °C within 5 sec.



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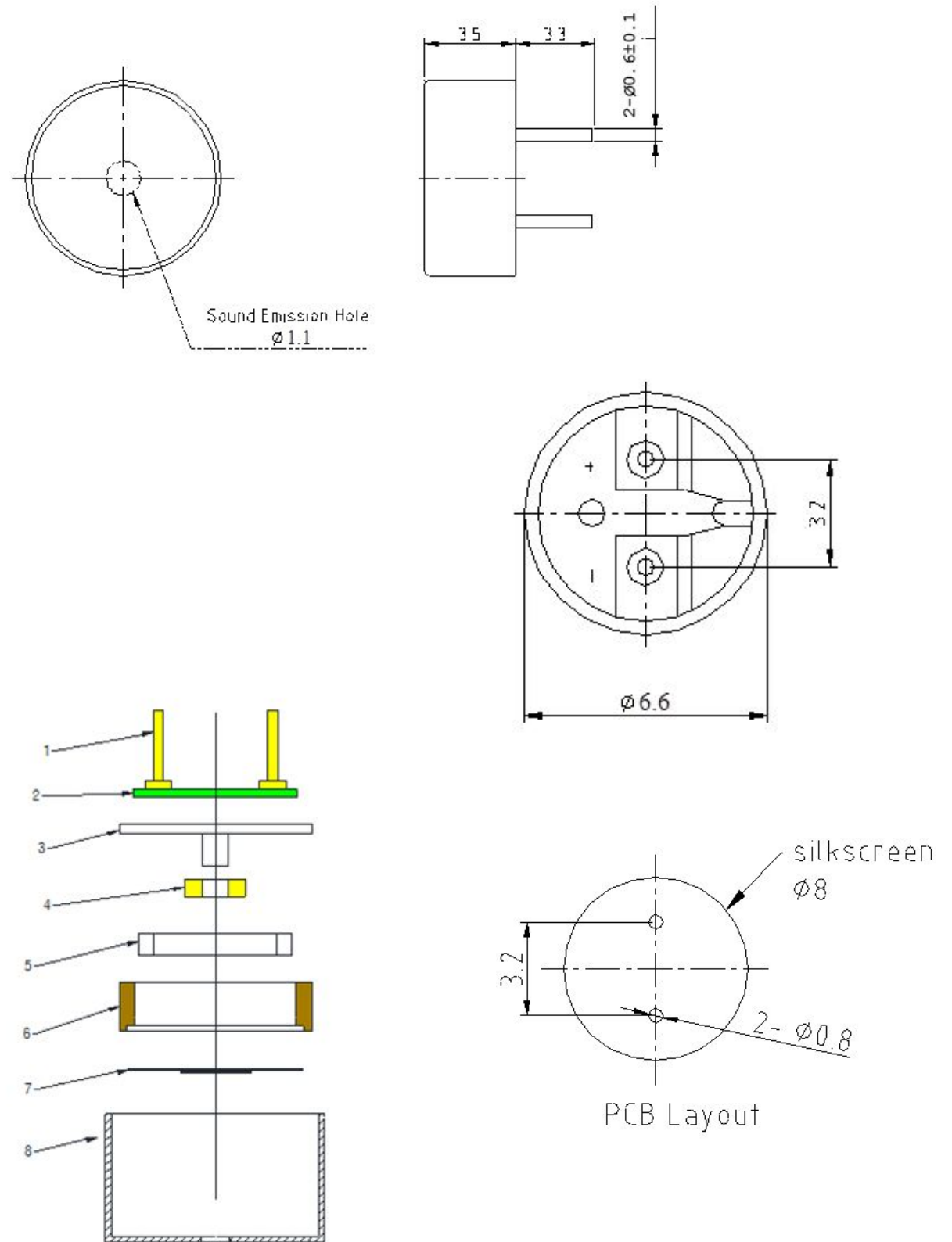
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## Dimensions

Tolerance:  $\pm 0.5$  (unit: mm)



No.	Part Name	Material	Quantity
1	PIN	Copper	2
2	PCB	Epoxy glass fiber cloth + copper	1
3	Core	Ferrum	1
4	Coil	Copper	1
5	Magnet ring	NdFeB	1
6	Copper collar	Copper	1
7	Diaphragm	Ferrum	1
8	Case	PPO	1



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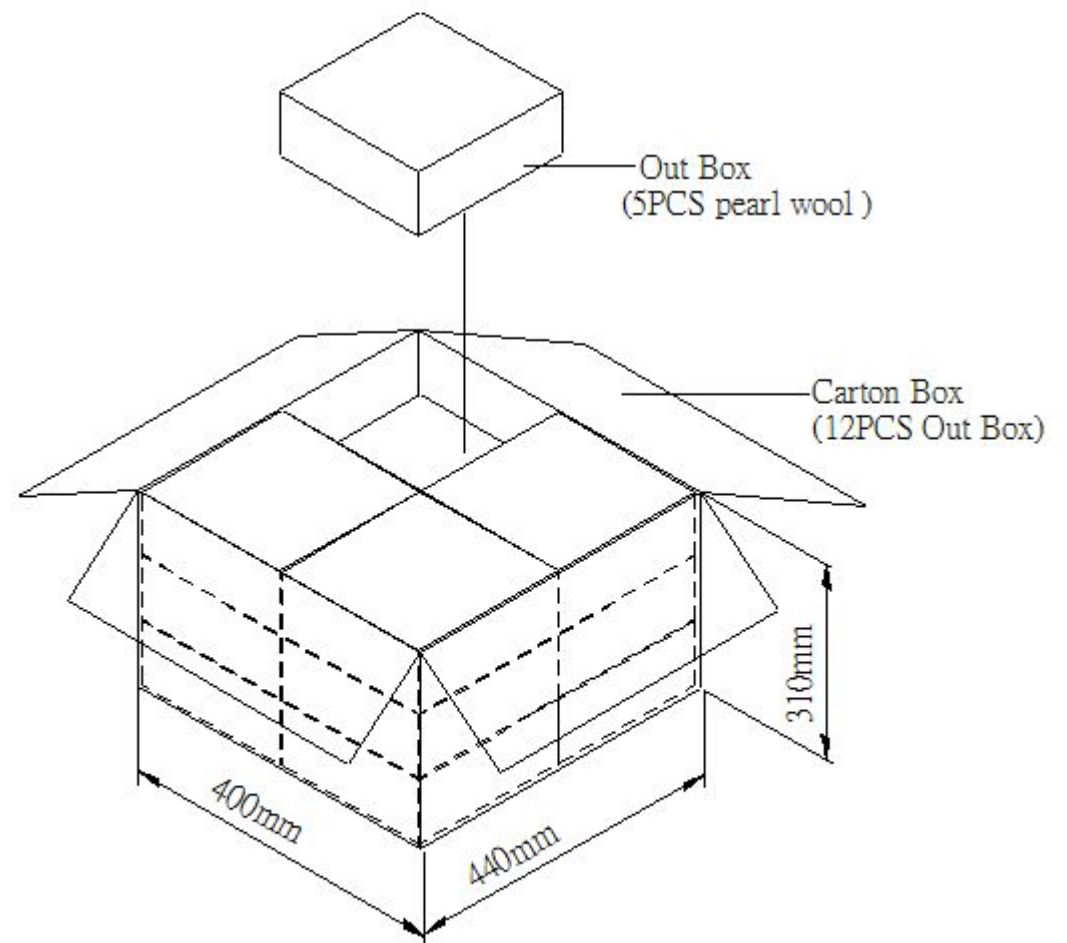
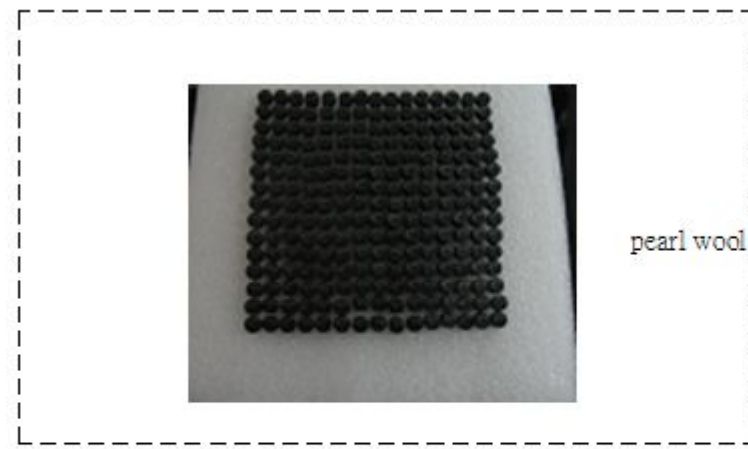
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## Details

	Size (mm)	Quantity (pcs)
Pearl wool	184 x 184 x 10	225
Small box	200 x 190 x 100	1125
Big box	440 x 400 x 310	13500