SPECIFICATION
FOR
APPROVAL

Customer：

Description： Piezo Audio Transducer

Soberton Part No. ： PT-1625

Date：2007-11-25

Customer Model No. ：

Date of Approval	
Authorization Signature	

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Approved	Checked	Issue
Ryan 2007/11/29	Wang Cheng 2007/11/29	Song Qi 2007/11/29

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1. ELECTRICAL AND ACOUSTICAL SPECIFICATION

	Item	Unit	Specifications
1-1	Rated Voltage（Square Wave）	Vp-p	3.0
1-2	Operating Voltage	Vp-p	3-25
1-3	＊Rated Current（Max）	mA	1
1-4	＊Min Sound Output at 4.0kHz/10cm	dB	73
1-5	＊Resonant Frequency	Hz	4000±500
1-6	Capacitance at 120Hz	pF	15000±30%
1-7	Operating Temperature	℃	-20~+75
1-8	Storage Temperature	℃	-40~+85
1-9	Weight	g	1.0
1-10	Housing Material	Black LCP	
1-11	Pin Type	SMD	
1-12	Tone Nature	Single	

＊Value Applying at Rated Voltage（resonant frequency，1/2 duty，square wave）

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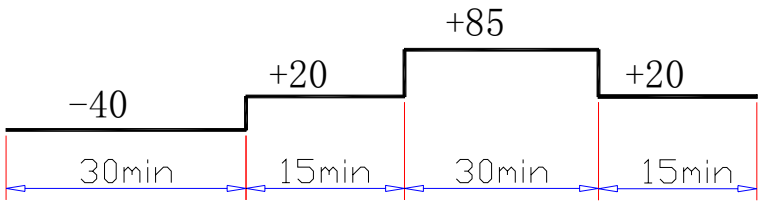
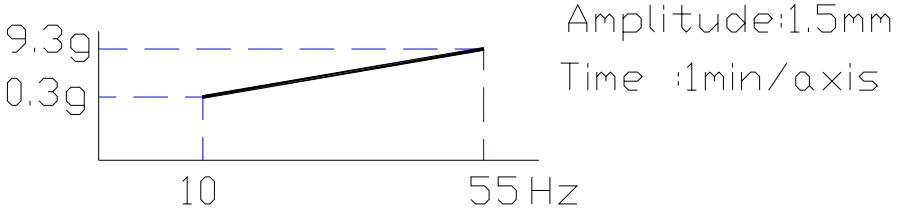
2.ENVIRONMENTAL TEST

	Item	Specifications
2-1	Storage in High temp.	Storage in +85℃±2℃ test box for 120 hours，then expose to the room temperature for 2 hours without applying power.
2-2	Storage in Lower temp.	Storage in -40℃±2℃ test box for 120 hours，then expose to the room temperature for 2 hours without applying power.
2-3	Storage in Humidity	Storage in +40℃±2℃ 90-95%RH test box for 120 hours, then expose to the room temperature for 2 hours without applying power.
2-4	Thermal cycle test.	 Make this test for 5 cycles without applying power, then expose to the room temperature for 2 hours.
2-5	Vibration test	 Make this test for the directions of X,Y, Z for 2 hours each (total 6 hours).
2-6	Drop test	Free drop a unit from the height 100cm to the surface of 10mm thick board ,three directions(X,Y,Z).
2-7	Solderability test	Soldering temp.:235±5℃ Heat applying time: 2.0±0.5sec.

PASS CRITERION :

After these tests, the change of S.P.L shall be within ±5 dB .

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3.MEASURING METHOD

3-1 .Test Condition

1. STANDARD

Temperature : 25±3℃

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

2. JUDGEMENT

Temperature : 15 ~ 35℃

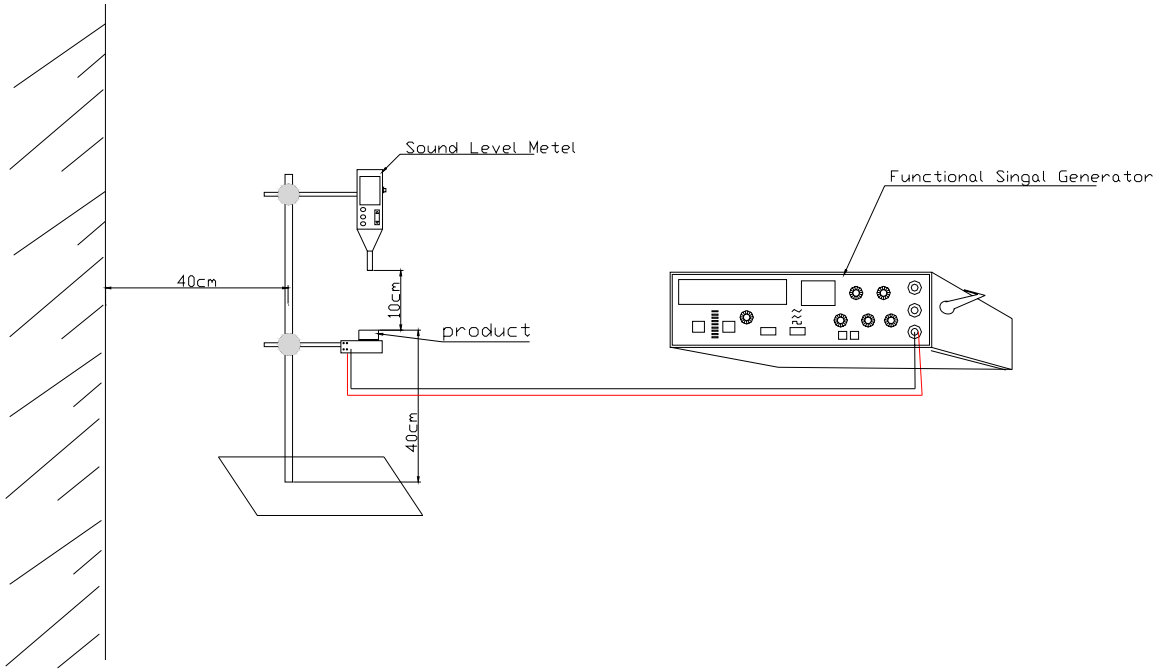
Relative humidity : 45% ~ 85%,

Atmospheric pressure: 860mbar to 1060mbar.

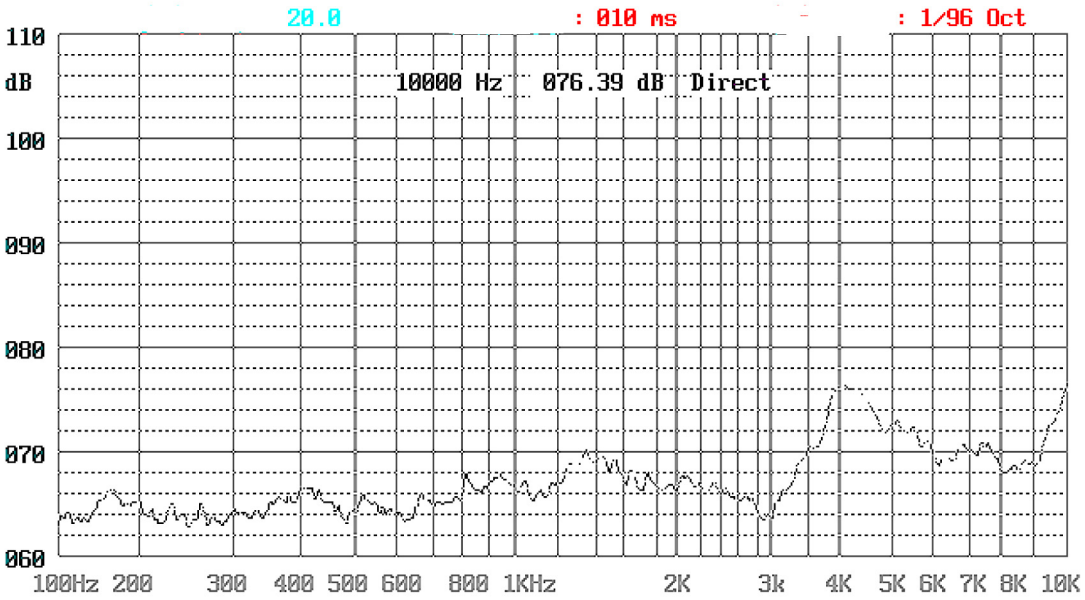
3-2. Standard Test Fixture

1. Rated Voltage(Square wave): 3.0V

2. Resonant Frequency: 4000Hz

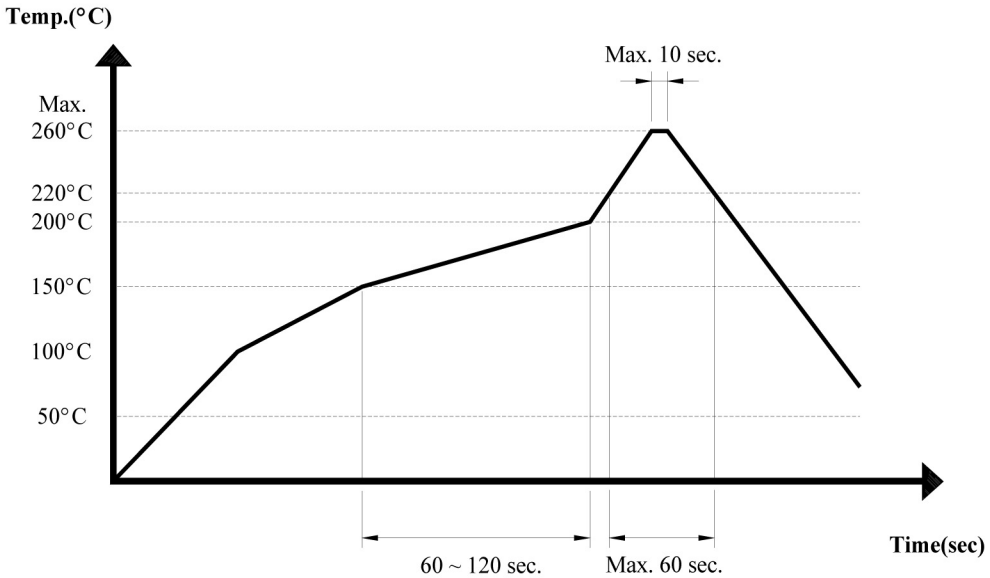


4.FREQUENCY RESPONSE:



5.RECOMMENDED TEMP.

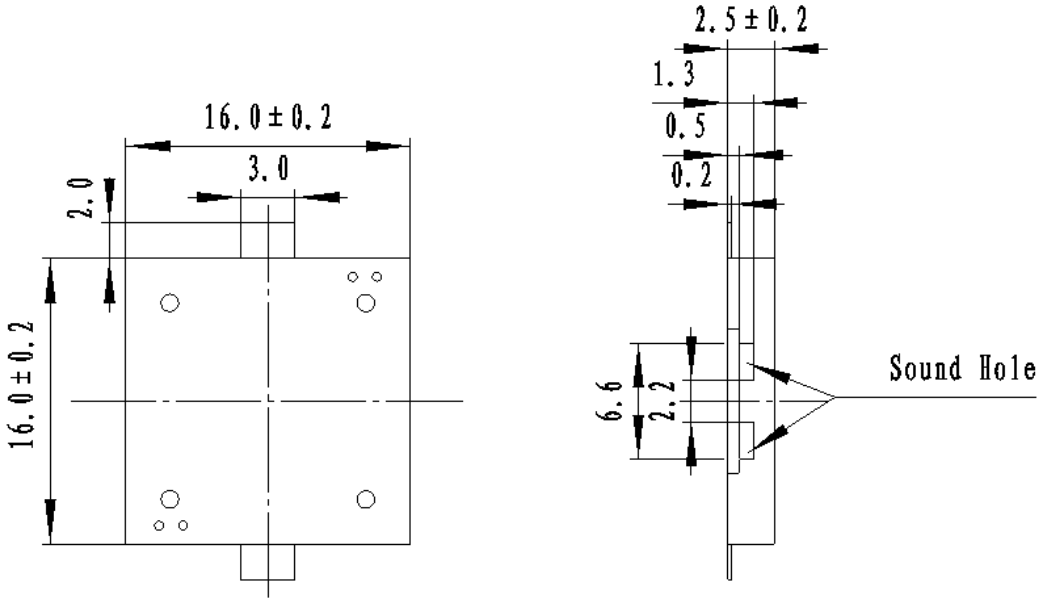
* Reflow profile of lead-free



Recommendable reflow soldering condition is as follows.
Note 1: It is requested that reflow soldering should be executed after heat of product goes down to normal temperature.
Note 2: Peak reflow temperature of 260°C, with a maximum duration of 60 sec. between 220°C and 260°C

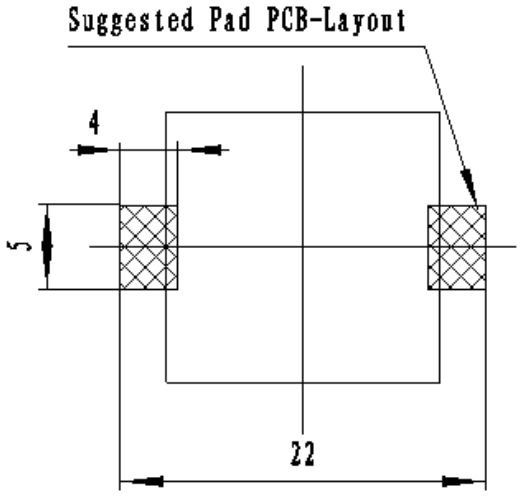
6.DIMENSIONS

Unless otherwise specified, tolerance: ±0.2 (unit: mm)



1）All parts must be meet to ROHS.

2）Wave solder allowed，wash not allowed.



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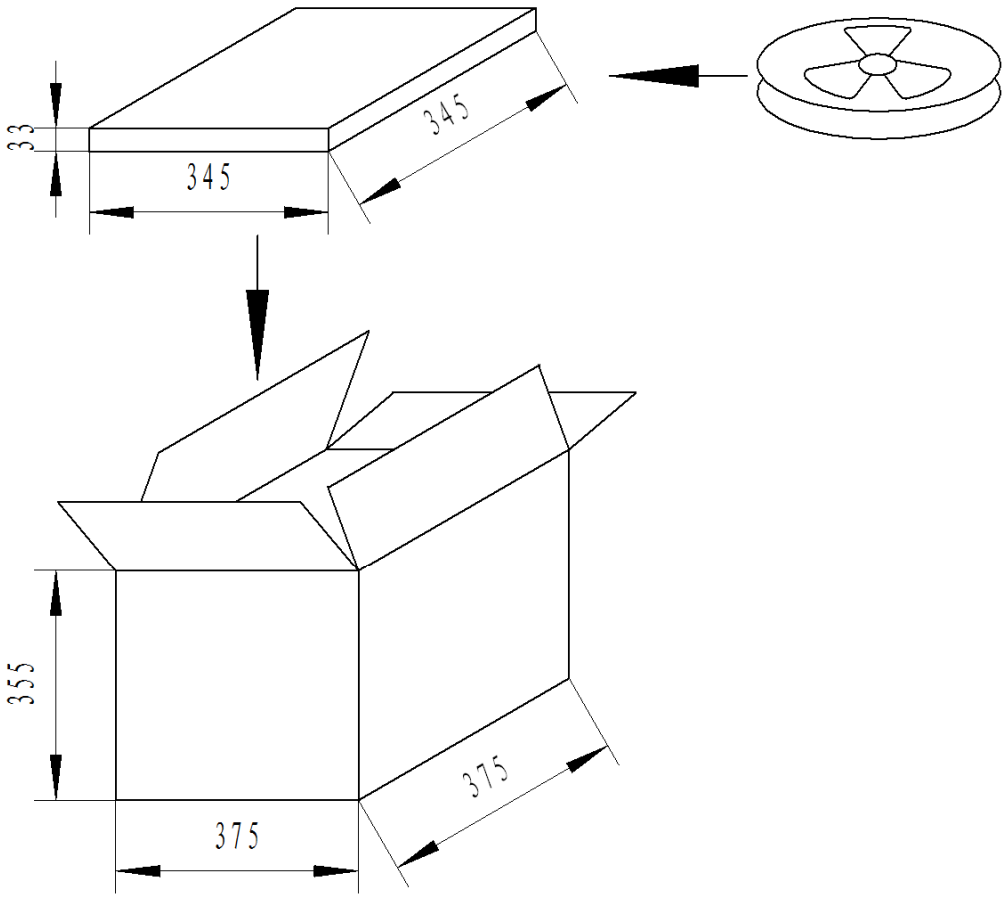
7.PACKING



NOTES:

1. 1000 PCS per box
2. Total 10 box per carton
3. Total 10000 PCS carton

UNIT: mm

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