



SPECIFICATION FOR PIEZO Speaker

TOTAL PAGE

07

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Preliminary Specification For The Acoustic Characteristics of Piezo Speaker

Customer		Model Name	BPS1319H1.3
Customer P/N		Product No.	250119
Date	07 Jan. 12	Issue No.	BS/TEPS01.008A
Page	01 of 07	Issue Date	2012/01/07

Approval:

1. Technical Terms
2. Drawing
3. Reliability Test
4. Packing
5. History Change Record

Drawn by	Checked by	Approved by	Customer approved
王平	马国阳	李红元	

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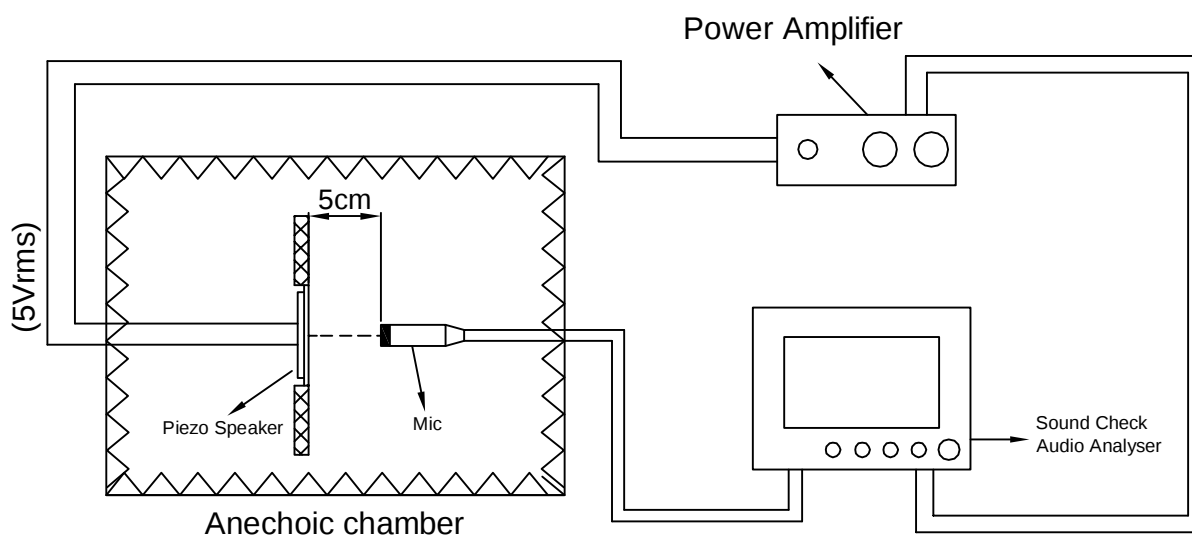
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BPS1319H1.3

1. Technical Terms

No.	Item	Specifications
1.	Size	13x19X1.3mm
2.	Resonance frequency	15 00±300Hz
3.	Rated input voltage	7Vrms
4.	Maximum input voltage	9Vrms
5.	S.P.L(5Vrms 5cm)	95±3 dB(Avg1.0, 1.5, 1.8, 2.0, 3, 3.5, 4 KHz)
6.	Operating temperature	- 20...+70°C
7.	Storage temperature	-30...+85°C

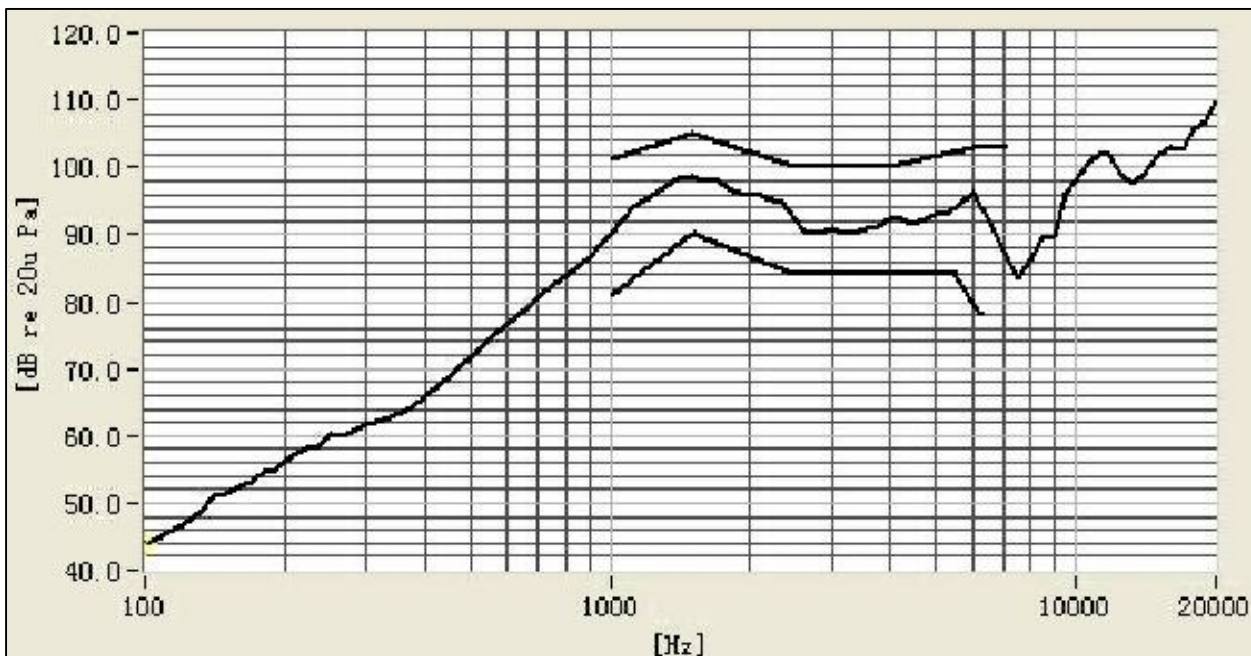
1.2 Test Method



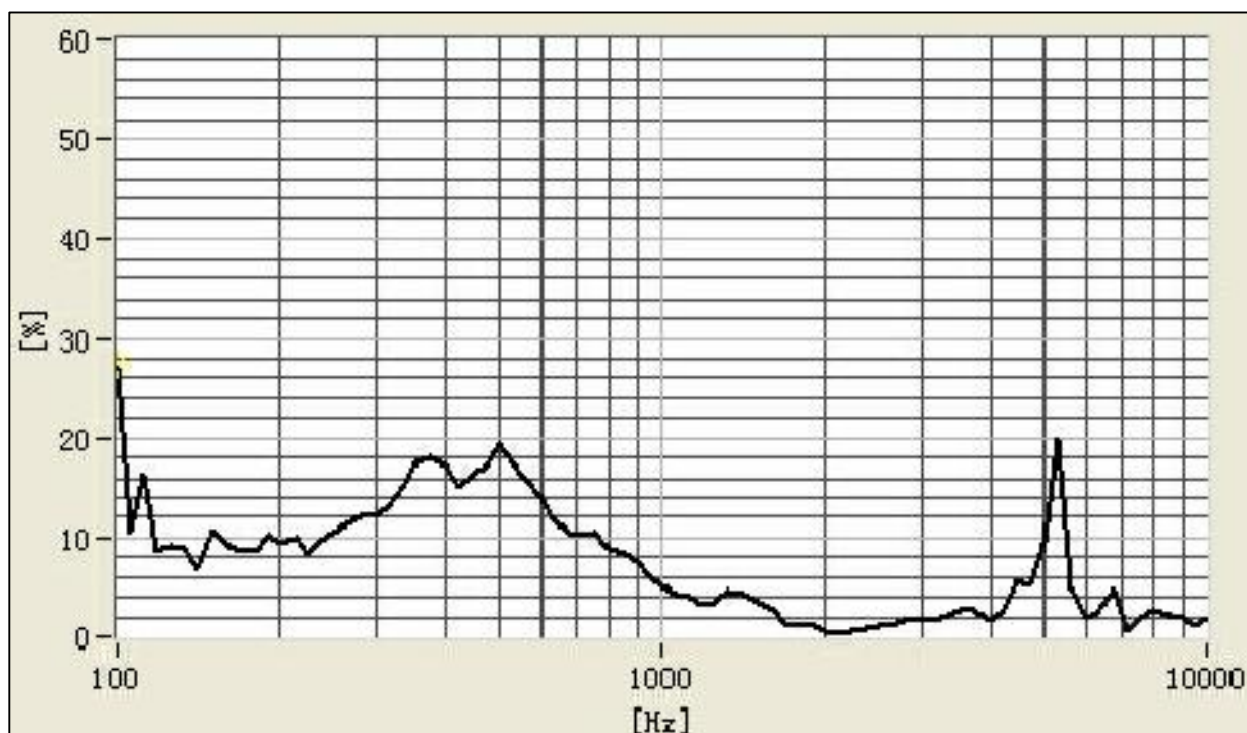
				Date:	2012/01/07	BPS1319H1.3
				Drawn by:	王 平	
A	2012/01/07	王 平		Checked by:	马国阳	Piezo Speaker
Rev.	Date	Drawn	Note	Approved by:	李红元	
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1.3 Frequency Response Curve (only for reference)



1.4 Total Harmonic Distortion Curve (only for reference)



Date: 2012/01/07

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Checked by: 马国阳

Approved by: 李红元

BPS1319H1.3

Piezo Speaker

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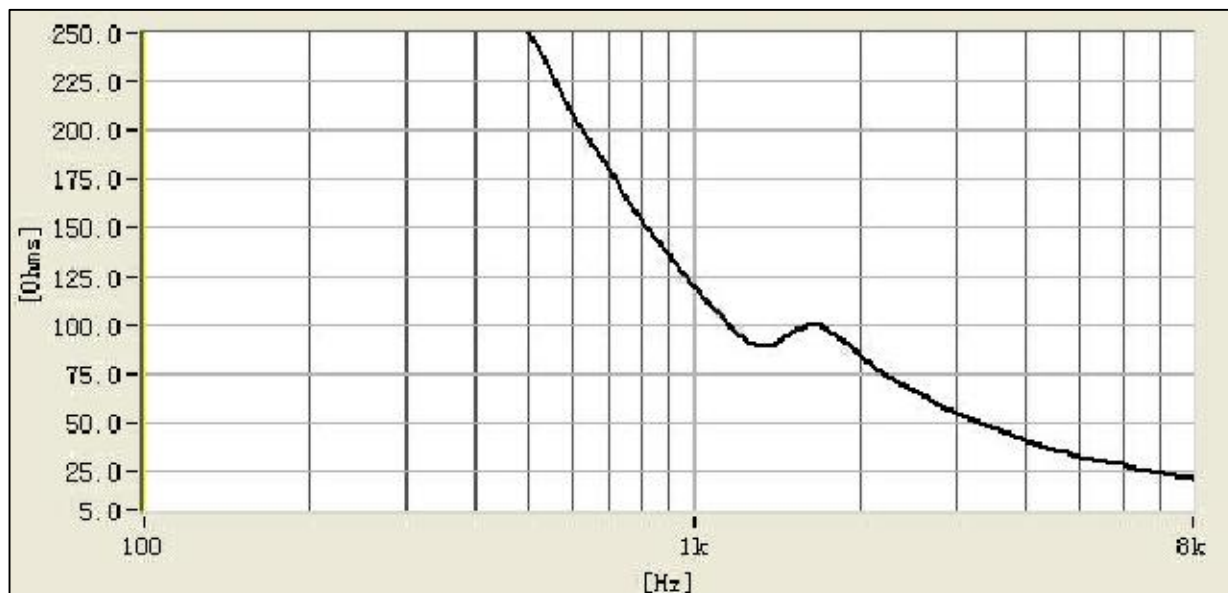
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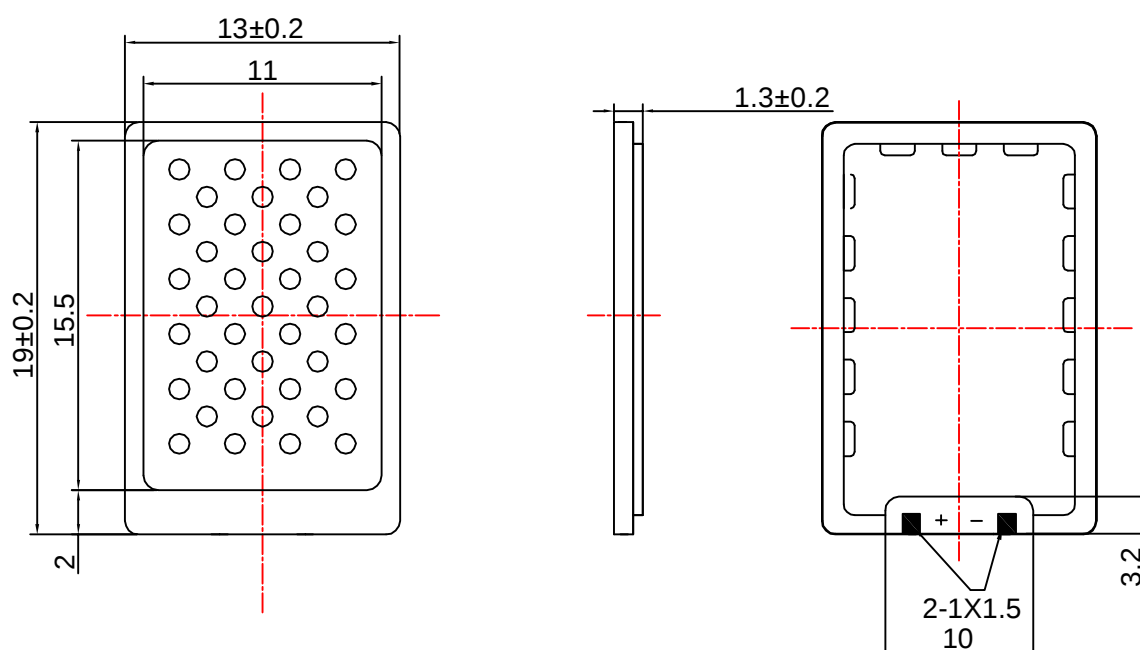
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1.5 Impedance Response Curve (only for reference)



2.Drawing



				Date:	2012/01/07	BPS1319H1.3
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A	2012/01/07	王 平		Checked by:	马国阳	Pizeo Speaker
Rev.	Date	Drawn	Note	Approved by:	李红元	
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3. Reliability Test

3.1 Load test

Input Signal

6.5V sine wave 1KHz

Duration

240hours

3.2 Heat test

Temperature

 $+70\pm 3^{\circ}\text{C}$

Duration

240hrs

3.3 Cold test

Temperature

 $-20\pm 3^{\circ}\text{C}$

Duration

240hrs

3.4 Temperature change(shock)

Low Temperature

 $-20\pm 3^{\circ}\text{C}$

High Temperature

 $+60\pm 3^{\circ}\text{C}$

Dwell time each temperature

30min

Transfer time from lower to upper temperature

<10s

Cycles

10

3.5 Moisture Test

Temperature

 $+40\pm 2^{\circ}\text{C}$

Humidity

 $92\pm 2\%(\text{RH})$

Duration

240hrs

3.6 Drop test

Surface(floor)

concrete or steel

Height

75cm

Direction

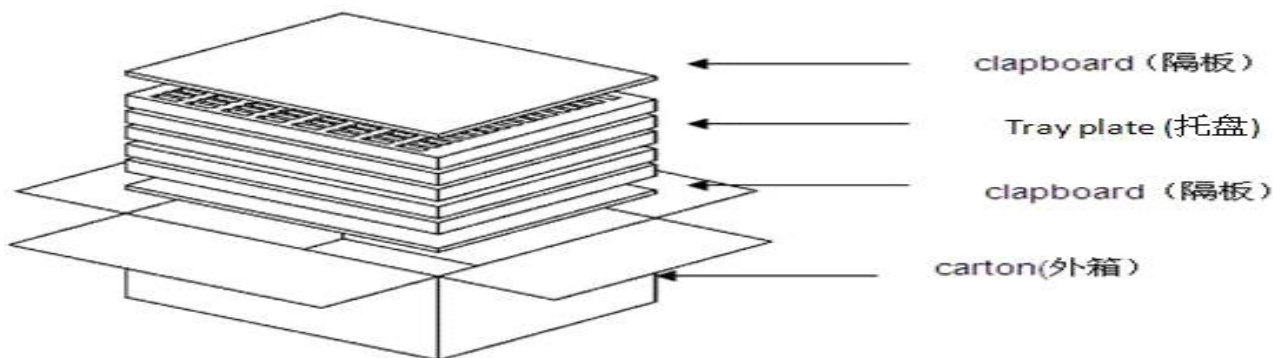
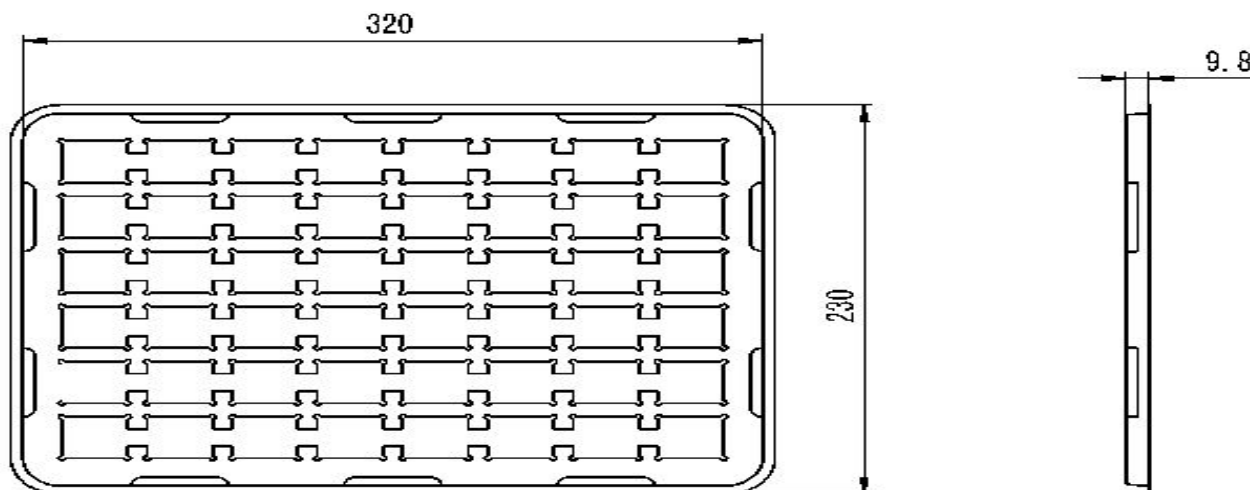
X,Y&Z 3axes

After the test,all electronic and acoustic characteristic should be satisfied with the specification. SPL: Deviation is of $\pm 3\text{dB}$ of initial value.
frequency :Deviation is of $\pm 20\%\text{Hz}$ of initial value.

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4. Packing



45pcs Tray Plate per carton ,
2pcs cardboard per carton ,
2160pcs per carton ,
Net Weight:4.5KG
Gross Weight:5KG

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5. History change record

[illegible]

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