



SPECIFICATION FOR PIEZO ELECTRIC BUZZER

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RoHS

Customer		Model Name	BPT2203H07 LF
Customer P/N		Product No.	031001
Date	10 Dec. 09	Issue No.	BS/TEP01.211C
Page	01 of 07	Issue Date	09/12/10

Approval:

- 1.Description
- 2.Notice
- 3.Dimension
- 4.Reliability Test
- 5.Packing
- 6.History change record

Drawn by	Checked by	Approved by	Customer approved

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BPT2203H07 LF



1.Description

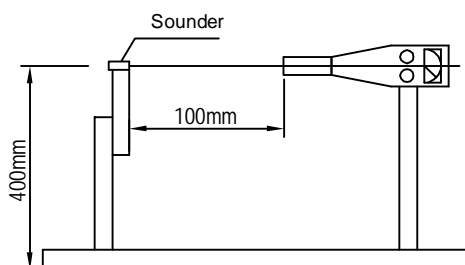
1.1 The specification relates to the piezoelectric sounder intended to be used in alarm systems. Please contact us before using any of the products in the applications not described above.

1.2 Electrical and Mechanical Characteristics

No.	Item	Specification
1.	Rated Voltage Square wave	3 Vp-p
2.	Max Input Voltage	30 Vp-p
3.	Capacity at 120 Hz	15nF \pm 30%
4.	a) Rated Current	max3 mA
5.	a)Sound Output at 10cm	min75 dB
6.	Resonant Frequency	4000 \pm 500Hz
7.	Operating Temperature	-20...+70 °C
8.	Storage Temperature	-30...+80 °C
9.	Case Material	MPPO
10.	Weight	2.5 g
a)Value applying at rated voltage, resonant frequency , Square Wave		

1.3 Standard test Fixture

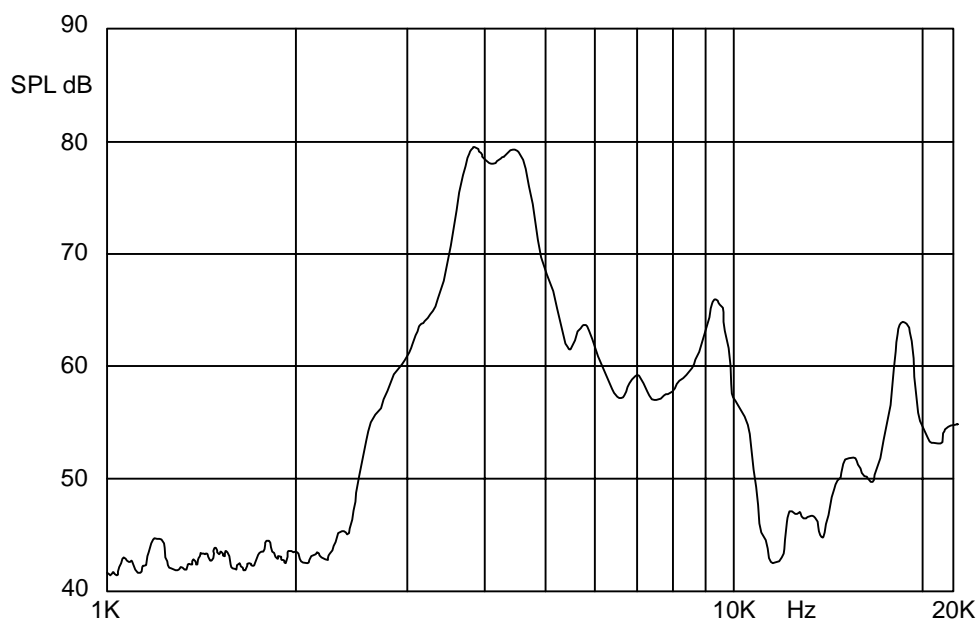
No reaction in space with in 400mm in all direction



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				Checked by:	邱 俊	Piezo Sounder
Rev.	Date	Drawn	Note	Approved by:	李红元	
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1.4 Frequency Response(Square wave 3Vp-p 10cm)



2. Notice

2.1 The products mustn't be washed

2.2 Storage Condition

The products should be stored in the room, where the temperature/humidity is stable.

And avoid such places where there are large temperature changes. Please store the products at the following conditions:

Temperature: -10 to +40°C Humidity: 15 to 85% R.H.

2.3 Expire Date on Storage

Expire date (Shelf life) of the products is six months after delivered under the conditions of a sealed and an unopened package. Please use the products within six months after delivered.

If you store the products for a long time (more than six months), use carefully because the products may be degraded in the solderability and/or rusty. Please confirm solderability and characteristics for the products regularly.

2.4 Notice on Product Storage

(1) Please do not store the products in a chemical atmosphere (Acids, Alkali, Bases, Organic gas, Sulfides and so on), because the characteristics may be reduced at quality, and/or be degraded in the solderability due to the storage in a chemical atmosphere.

(2) Please use the products immediately after the package is opened, because the characteristics may be reduced at quality, and/or be degraded in the solderability due to storage under the poor condition.

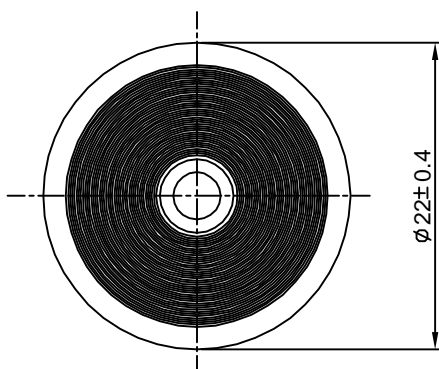
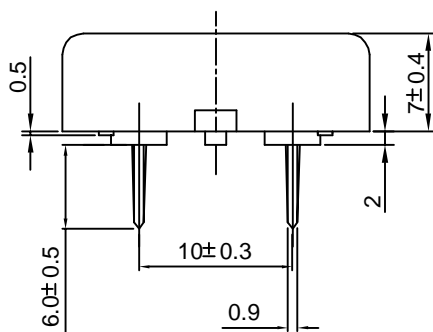
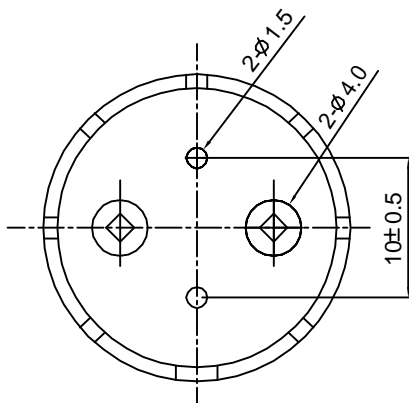
(3) Please do not drop the products to avoid cracking of ceramic element.

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3. Drawing

Tolerance : ± 0.3 Unit:mm



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4. Reliability test

4.1 High temperature test

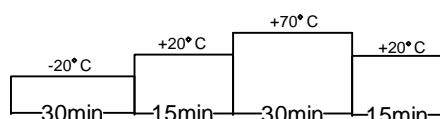
Temperature + 80°C
Duration 96hrs

4.2 Low temperature test

Temperature -30°C
Duration 96hrs

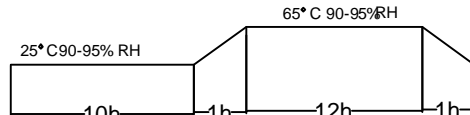
4.3 Temperature cycle test

Cycles 5



4.4 Humidity cycle test

Cycles 5



all these tests above should be measured after leaving normal temperature for 2hrs.

4.5 Drop test

Height 70cm
(to 10mm thickness woodenboard)
Direction 3

4.6 Solderability test

Solderability temperature 255°C
Heat applying time 3sec

4.7 Vibration Test

Vibration Frequency 10~55Hz
Amplitude 1.52mm
Duration 2hrs each of 3 axis

Notice: After the test the part shall meet specifications without any degrance and performance except S.P.L, S.P.L shall be 70dB more .

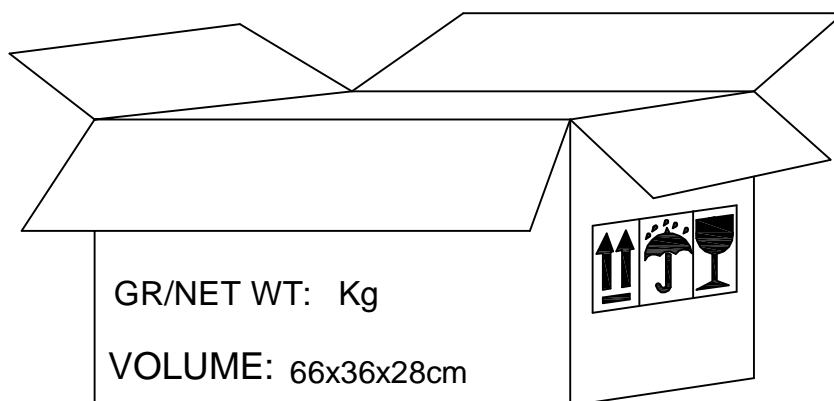
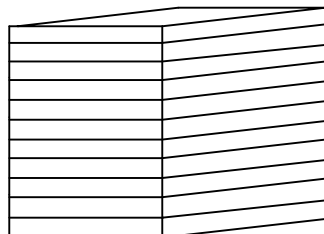
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5.Packing

5.1Packing Drawing



5.2 packing quantity

- 1)50pcs/tray
- 2)40tray/carton
- 3)2000 pcs/carton in total
- 4)carton size: 66x36x28cm

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6. History change record

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