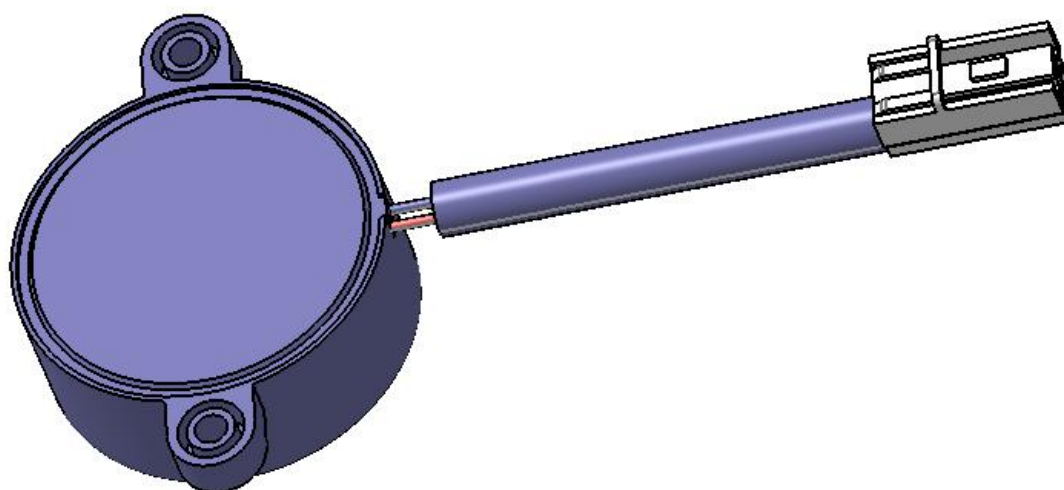
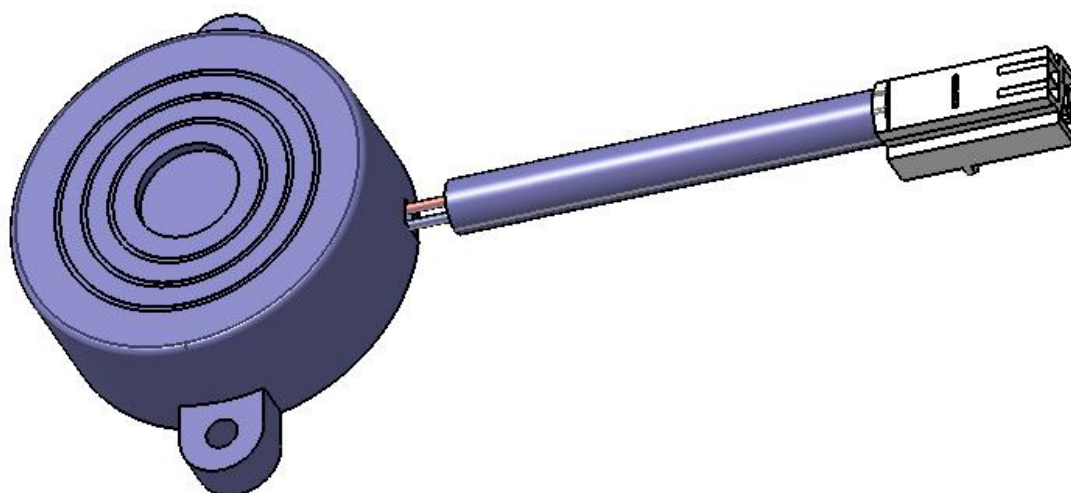


SPECIFICATION

BPT4012H16W220





INITIAL SPECIFICATION FOR PIEZO ELECTRIC BUZZER

TOTAL PAGE

08

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RoHS

Customer		Model Name	BPT4012H16W220
Customer P/N	F03H00K053	Product No.	032218
Date	30 Jul.18	Issue No.	BS/TEP01.1119C
Page	02 of 08	Issue Date	2018/07/30

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

Drawn by	Checked by	Approved by	Customer approved
魏春欢	王 平	赵 峥	

BESTAR HOLDING CO.,LTD

No.199 HuangHe West Road,New district,ChangZhou,JiangSu Province,P.R.China

Tel: +86 519 88222567 **Fax:** +86 519 88222551

E-mail:wu@be-star.com **<http://www.bestargroups.com>**

BPT4012H16W220

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.

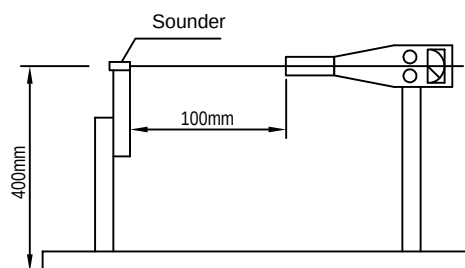
1.2 Electrical and Mechanical Characteristics

No.	Item	Specification
1.	Rated Voltage(Square Wave)	12Vp-p
2.	Operating	9...16Vp-p
3.	Rated Current	max.30mA
4.	Sound Output at 10cm	Min.90dB(at 3100Hz)
5.	Rated Resistance	470±15% Ω
6.	Capacitance at 120Hz /1V	28±30% nF
7.	IP	IP5K2
8.	Operating Temperature	-40...+85 °C
9.	Storage Temperature	-40...+85 °C
Value applying at rated voltage.(12Vp-p square wave,1/2duty)		

1.3 Test method:

Standard test Fixture

No reaction in space with in 400mm in all direction



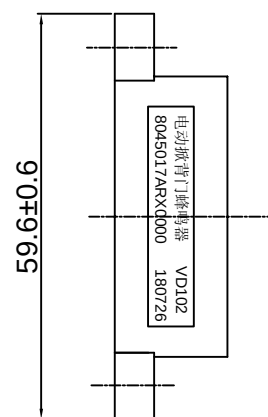
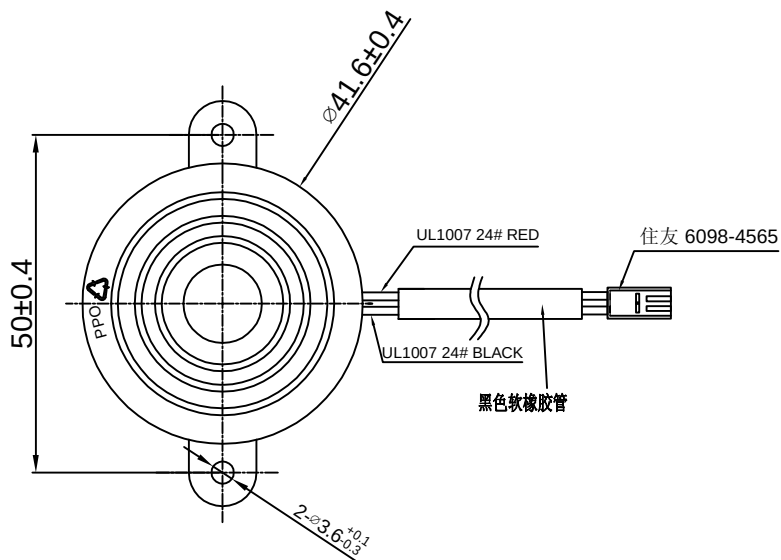
				Date:	2018/07/30	BPT4012H16W220
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				Checked by:	王 平	
Rev.	Date	Drawn	Note	Approved by:	赵 峰	Piezo Buzzer
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2. Drawing

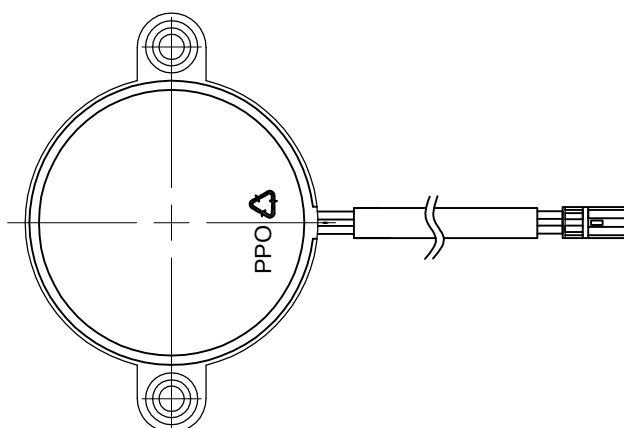
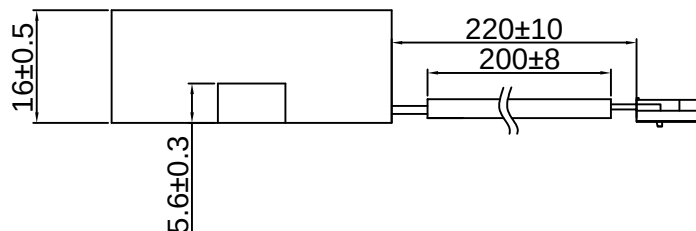
Tolerance: ± 0.5

Unit: mm



电动掀背门蜂鸣器 V D102
8045017ARX0000 180726

电动掀背门蜂鸣器: Part Name
VD102: Supplier Code
8045017ARX0000: Part Number
180726: Production Date (Year Month Day)



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3. Reliability test

3.1 Low temperature test

Temperature

-40°C

Power supply

12Vp-p(500ms on,1s off)

Duration

96hrs

3.2 high temperature test

Temperature

+85°C

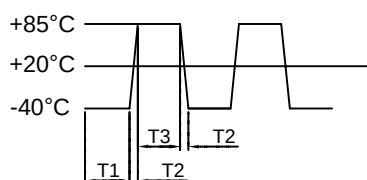
Power supply

12Vp-p(500ms on,1s off)

Duration

96hrs

3.3 Thermal shock



T1:20min

T2:30S

T3:20min

Cycles

632

3.4 Temperature cycle test

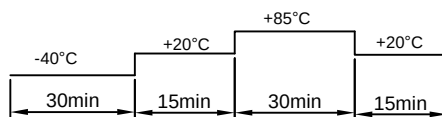
Power supply

9Vp-p(10% total cycles)14Vp-p(80% total cycles)

16 Vp-p(10% total cycles)(500ms on,1s off)

Cycles

211



3.5 Damp Heat Test(IEC60063-2-38,Z/AD)

Cycles

10(24hrs/cycle,normal cycle and cold cycle alternate)

Power supply

12Vp-p(in 65°C or 25°C)

3.6 Hot and wet test

Temperature

+85°C

Humidity

85%

Power supply

14Vp-p(500ms on,1s off)

Duration

1000hrs

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3.7 Hot and wet test

Temperature +85°C
 Power supply 9Vp-p(10% total cycles)14Vp-p(80% total cycles)
 16 Vp-p(10% total cycles)(500ms on,1s off)
 Duration 500hrs

3.8 Salt spray test

Temperature +35°C
 Salt fog concentration 5%
 Cycles 3(24h/cycle)

3.9 Drop test

Height 100cm(to concrete surface)
 Direction 6($\pm X, \pm Y, \pm Z$ one direction at a time)

Notice:All the above test are in parallel.

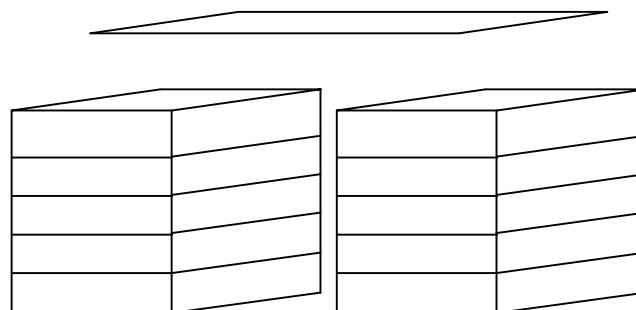
After each test, initial SPL reduce <10dB,there is no any degradation in appearance.

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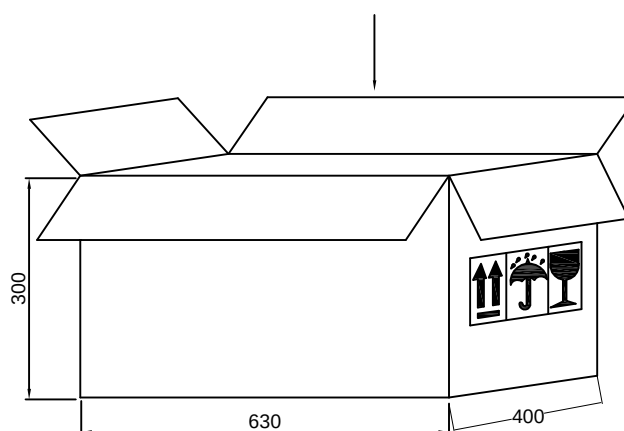
BPT4012H16W220

4.Packing



Remark:

20 pcs per foam plate
 22 foam plates per carton
 Total 440pcs per carton
 Size: 63X40X30cm



5.Notice

5.1 The products mustn't be washed

5.2 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.

5.3 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.

5.4 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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						2	
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6. History change record

[illegible]

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