



# SPECIFICATION FOR PIEZO ELECTRIC BUZZER

TOTAL PAGE

06

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RoHS

Customer		Model Name	BPT4012P12VDCB
Customer P/N		Product No.	XXXXXX
Date	31 Mar 15	Issue No.	BS/TEP01.XXXA
Page	01 of 06	Issue Date	2015/03/31

## Approval:

- 1.Description
- 2.Dimension
- 3.Reliability test
- 4.Packing(initial)
- 5.Notice
- 6.History Change Record

Drawn by	Checked by	Approved by	Customer approved

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# BPT4012P12VDCB



## 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.

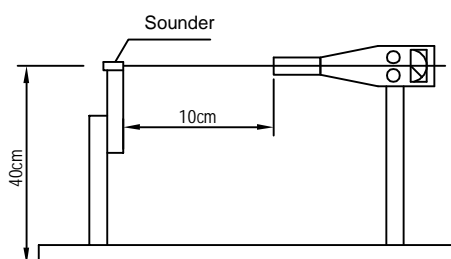
### 1.2 Electrical and Mechanical Characteristics

No	Item	Specification
1.	Rated Voltage	12 VDC
2.	Operating Voltage	10...28VDC
3.	a)Rated Current	max.20mA
4.	a)Sound Output at 10cm	Min.100dB
5.	Resonant Frequency	2.8± 0.5 KHz
6.	ON-OFF-Cycles	60C/M±15
7.	Tone	Pulse
8.	Operating Temperature	-40...+85 °C
9.	Storage Temperature	-40...+90 °C
10.	Weight	14.3g ± 10%
11.	Material	MPPO
a)Value applying at rated voltage(DC).		

### 1.3 Test method:

Standard test Fixture

No reaction in space with in 400mm in all direction



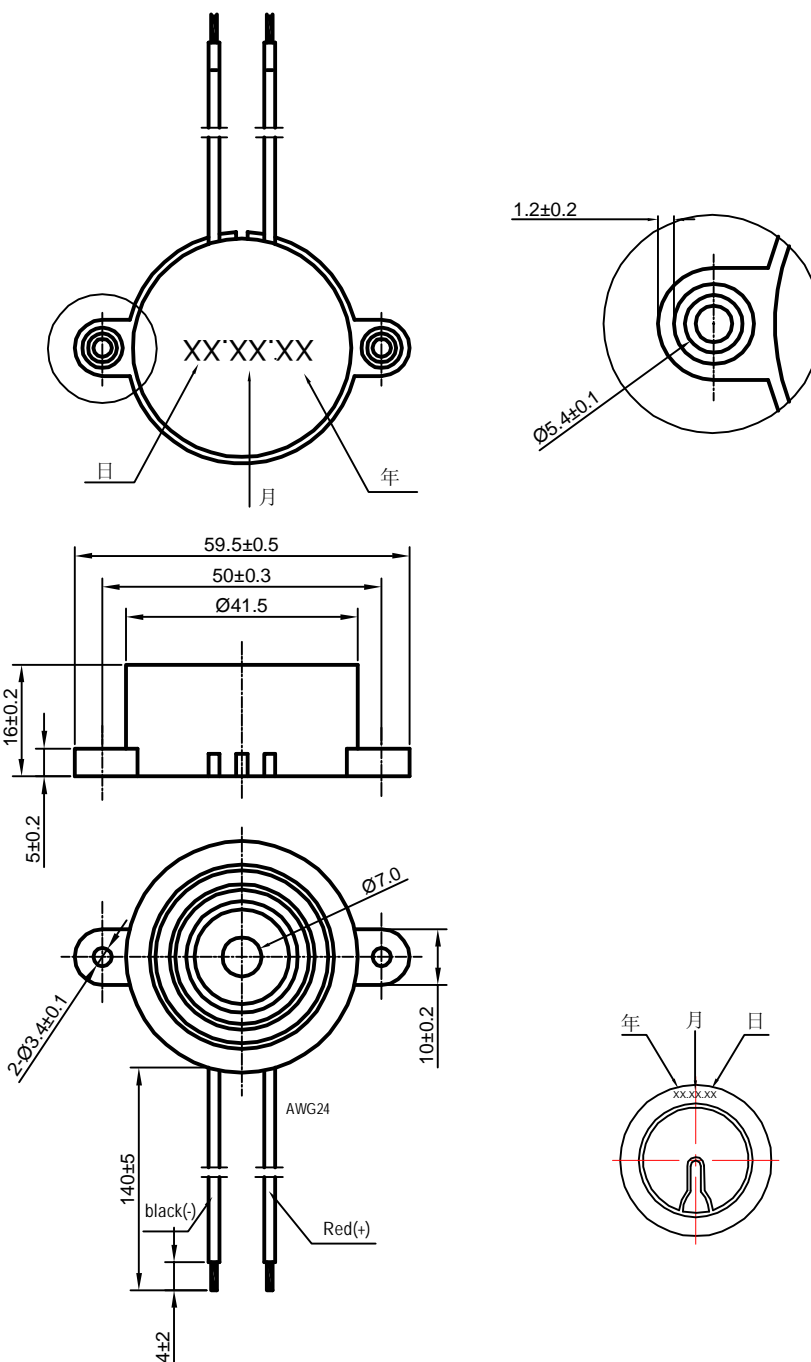
				Date:	2015/03/31	BPT4012P12VDCB
				Drawn by:	龚云	
A	2015/03/31	龚云		Checked by:	陈小东	Piezo Buzzer
Rev.	Date	Drawn	Note	Approved by:	朱卫华	
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# BPT4012P12VDCB

## 2. Dimension

Tolerance:  $\pm 0.3$

Unit:mm



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## BPT4012P12VDCB

## 3. Reliability test

## 3.1 high temperature test

Temperature +90 °C  
Duration 96hrs

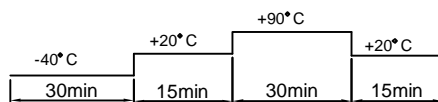
## 3.2 low temperature test

Temperature -40 °C  
Duration 96hrs

## 3.3 Life test in normal temperature

Power supply rated voltage  
Duration 1000hrs

## 3.4 Temperature cycle test



Cycles 5

## 3.5 Humidity test

Temperature +40 °C  
Relative Humidity 93%  
Duration 96hrs

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

## 3.6 Life test in high temperature

Temperature +90°C  
Duration 500hrs  
Load 12VDC

## 3.7 Life test in low temperature

Temperature -40°C  
Duration 500hrs  
Load 12VDC

## 3.8 Drop test

Height 75cm  
(to 10mm thickness woodenboard)  
Direction 3

## 3.9 Solderability

Temperature 255 ± 5° C  
Duration 3±0.5sec

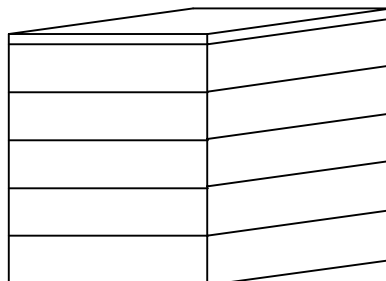
Notice: All specification must be satisfied in this condition.

SPL: allowable deviation ±10dB of the initial value after testing

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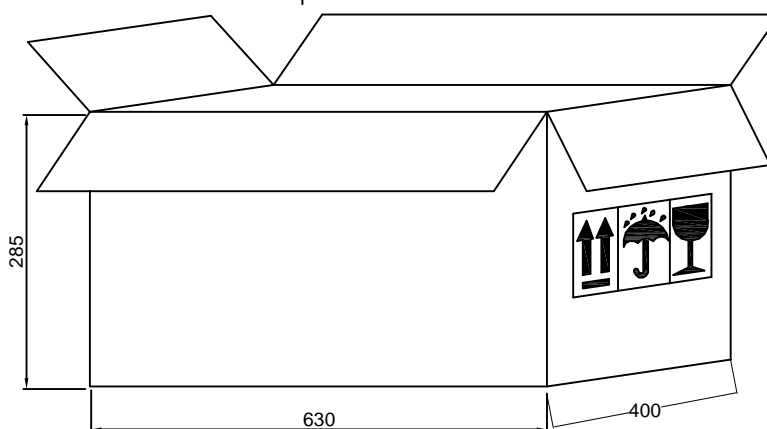
## BPT4012P12VDCB

4 Packing(initial)



## Remark:

30 pcs per tray  
 20 trays per carton  
 Total 600pcs per carton  
 Size: 63X40X28.5cm



## 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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## 6. History change record

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文件号: BS/QDTE045B