

Speaker Alarm

BUS112PW-04

Product No. 112173

BS/TEA01.861 Issue No.



REFERENCE

Features:

- IP65 waterproof rating
- Loud sound output
- RoHS

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REFERENCE BESTAR Holdings Co., Ltd.

Content:

1 Characteristics	alCE 3	a)CE			
1 Characteristics		-4			
1.1 Technical terms					
1.2 Test method		.4			
2 Part List		5			
3 Dimension		6			
4 Reliability Test	7	-8			
5 Packing		.9			
6 History change record		10			
7 Important Notice		11			

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1. Characteristic

1.1 Technical terms

1. Rated Voltage 2. Operating Voltage

3. Current Consumption

4. SPL at 1.2m 24V

5. Tone

6. ON-OFF-cycles

7. Resonant Frequency

8. Temperature Range

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10.IP-rating

24VDC 9-2~ 9-32VDC

≤0.8A at 24VDC

112±4dB

Pulse tone

66C/M±5

1400±200Hz

-40~+85℃

-40~+85℃

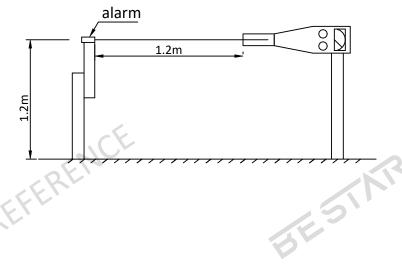
IP65 BESTAR





1.2 Test method:

The alarm is located in a free field or an equivalent fully anechoic room. The microphone is directed toward the alarm sound output openting along the zero degree axis and at the distance specified by the test requirement.



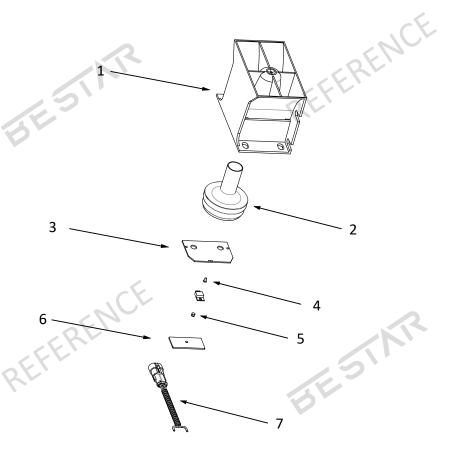


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Release Version:A4 Page 4 of 11 BESTAR Holdings

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2.Part List



7.Plug cord

6.Heat sink

5.Self-plugging Rivet

4.Self-tapping screw

3.PCBA

2.Speaker

1.Housing

AMP 282104-1

Aluminum

Aluminum

Carbon steel

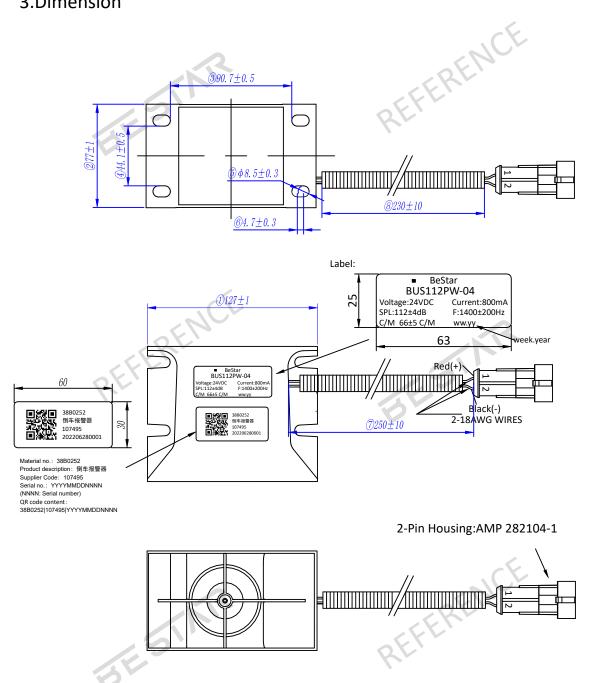
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Horn loudspeaker

PBT



3.Dimension



*Other dimemsion tolerance:±0.5mm



Release Version:A4 Page 6 of 11 **BESTAR Holdings**

4. Reliability test

- 4.1 Temperature Test
- 4.1.1 Low Temperature, System Voltage Extremes (Test standard: SAE J994 7.1)

Rated Voltage

Extreme Low System Voltage : 9VDC

Extreme High System Voltage: 32VDC

Nominal System Voltage: 28VDC

Duration

2hrs

Temperature

-40℃±3℃

4.1.2 High Temperature, System Voltage Extremes (Test standard: SAE J994 7.2)

Rated Voltage

Extreme Low System Voltage: 9VDC

Extreme High System Voltage: 32VDC

Nominal System Voltage: 28VDC

Duration

2hrs

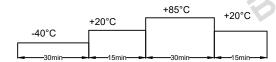
Temperature

+85℃±3℃

4.2 Temperature cycle test

Cycles

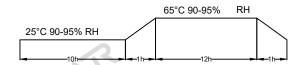
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4.3 Humidity cycle test

Cycles

5



4.4 Drop test

High

1m to the ground

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Direction

3

Release Version:A4 Page 7 of 11 BESTAR Holdings



4. Reliability test

4.5 Life test (Test standard: SAE J994 8)

4.5.1 Endurance Test at Low Temperature (Test standard: SAE J994 8.1)

Power 30s ON then 30s OFF

Rated voltage 9±0.2 VDC

Temperature -40 °C ±3 °C

Duration 4hrs

4.5.2 Endurance Test at High Temperature (Test standard: SAE J994 8.2)

Rated voltage 32±0.2 VDC

Temperature +85 °C ± 3 °C

Duration 4hrs

4.5.3 Room Temperature Endurance Test (Test standard: SAE J994 8.3)

Rated voltage 28±0.2 VDC

Temperature +25°C±11°C

Duration 100hrs

Notice: All specification must be satisfied in this condition.

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

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Release Version:A4 Page 8 of 11 BESTAR Holdings

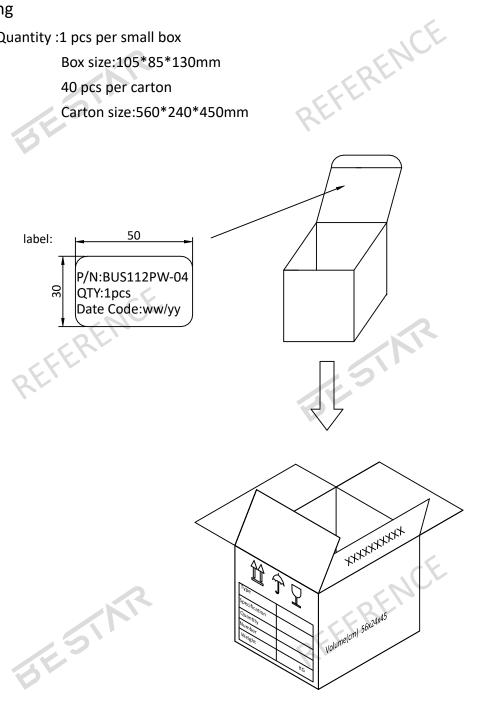
5. Packing

Packing Quantity: 1 pcs per small box

Box size:105*85*130mm

40 pcs per carton

Carton size:560*240*450mm



Notice:outer size 56x24x45cm



Page 9 of 11 **BESTAR Holdings** Release Version:A4

6. History change record

Version	Change Items	Date	Drawn	Checked	Approved
AO	First Edition	2020.11.5	Micca.Chen	Claire.Fu	Simon.Zhao
A1	Add week year on the label	2021.01.04	Micca.Chen	Claire.Fu	Simon.Zhao
A2	Update ON-OFF-cycles from 80±10C/M to 66±5C/M Update the product label	2021.05.10	Micca.Chen	Claire.Fu	Simon.Zhao
А3	The length of plug wire is changed from 100 ± 10 mm to 250 ± 10 mm; The casing length was changed from 80 ± 10 mm to 230 ± 10 mm.	2021.07.20	Jacob.Tian	Claire.Fu	Alisa.Xu
A4	Add the QR code label	2022.06.28	Kaylee.Zhuang	Claire.Fu	Richard.Cheng

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7. Important Notice

7.1 The products mustn't be washed

7.2 Store Condition (Packaging)

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 $^{\circ}$ C Humidity: 15 to 85% R.H.

7.3 Expire Date on Storage

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

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.

7.4 Notice on Product Storage

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- (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. REFERENCE



Release Version:A4 Page 11 of 11 **BESTAR Holdings**