

SPECIFICATION

Customer :
Applied To :
Product Name : Piezo Siren
Model Name : VPS4540
Drawing No. : VS20230206015

Signature of Approval

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Signature of Voice

Approved by	Checkde by	Issued by	Date

 **福爱斯电子有限公司**
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Revision No.

1.0

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1. Scope

This specification is applied to the siren used for sounder in alarm systems, Please contact us when using this product for any other applications than described in the above.

2. General

- 2.1 Length : 44.5 mm
2.2 Width : 57.5 mm
2.2 Height : 56.5 mm
2.3 Weight : 65 ±5g
2.4 Operating Temperature range:
-20~+60℃ without loss of function
2.5 Store Temperature range:
-30~+70℃ without loss of function

3. Electrical and Acoustic Characteristics.

Test condition : 15 ~ 35 °C, 25% ~ 85% RH, 860~1060 mbar

No	Items	Specification
1	Rated Voltage	12V DC
2	Working Voltage	9-30V DC
3	Max Rated Current	200mA/12VDC
4	Min Sound Pressure Level	88dB/9VDC;95dB/12VDC;100dB/24VDC/1M
5	Resonant Frequency	2.3-4.3KHz
6	Tone Nature	Siren
7	Housing Material	ABS
8	Color	Black

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4. Reliability Test

After test(1~6item), the siren S.P.L . difference shall be within $\pm 8\text{dB}$, and the appearance not exist any change to be harmful to normal operation

No	Items	Specification
1	High Temp.Test	After being woked in a chamber with $+70\pm 2\text{ }^\circ\text{C}$ for 100h and then being placed in natural condition for 2h, and then check.
2	Low Temp.Test	First being worked in a chamber with $-30\pm 2\text{ }^\circ\text{C}$ for 100h and then being placed in natural condition for 2h, and then check.
3	Humidity Test	After being placed in a chamber with 90 to 95%R.H. at $+40\pm 2\text{ }^\circ\text{C}$ for 100 h and then being placed in natural condition for 2h ,and then check.
4	Thermal Shock Test	After being worked in a chamber at $+70\pm 2\text{ }^\circ\text{C}$ for 1 hour, then sounder shall be placed in a chamber at $-30\pm 2\text{ }^\circ\text{C}$ for 1 hour(1 cycle is the below diagram). The test duration is for 10 cycle.after being placed in natural condition for 1 hour.and then check.
5	Vibration Test	Being applied vibration of amplitude of 1.5mm with 10-30Hz band of vibration frequency,X.Y.Z.3 direction.2 hours each, total 6 hours.
6	Drop Test	Free drop fram 0.5 meter height to a board 20mm thick hard wood board. and be nothing mechanical damage. tatol 6 times.

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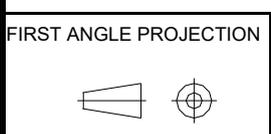
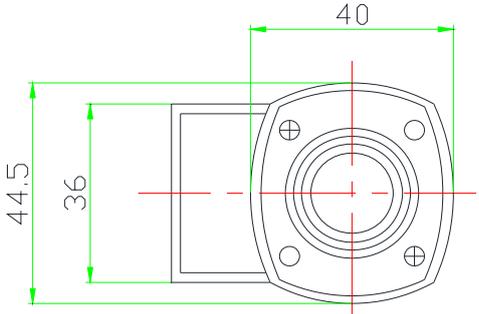
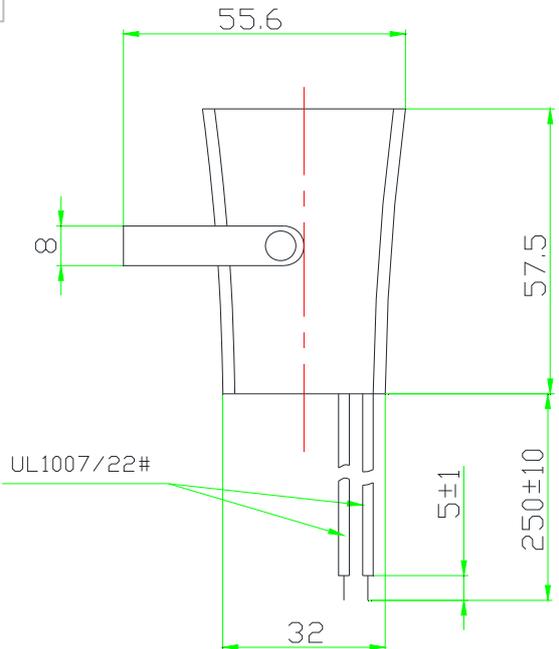
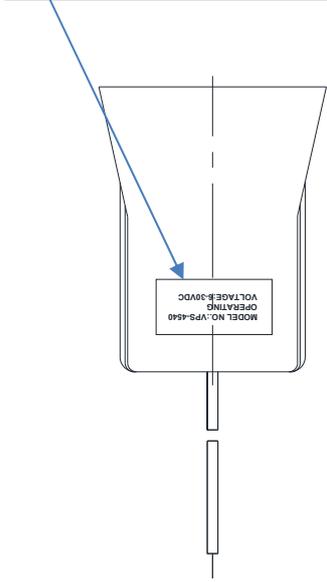
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5. Dimensions



MODEL NO.:VPS-4540
OPERATING VOLTAGE:9-30VDC



UNIT : mm
Tolerance : ±0.2

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6. Packing



Total:250 pcs per box
Size:46×29.5×2205cm