



Product Specification

Ningbo East Electronics Limited

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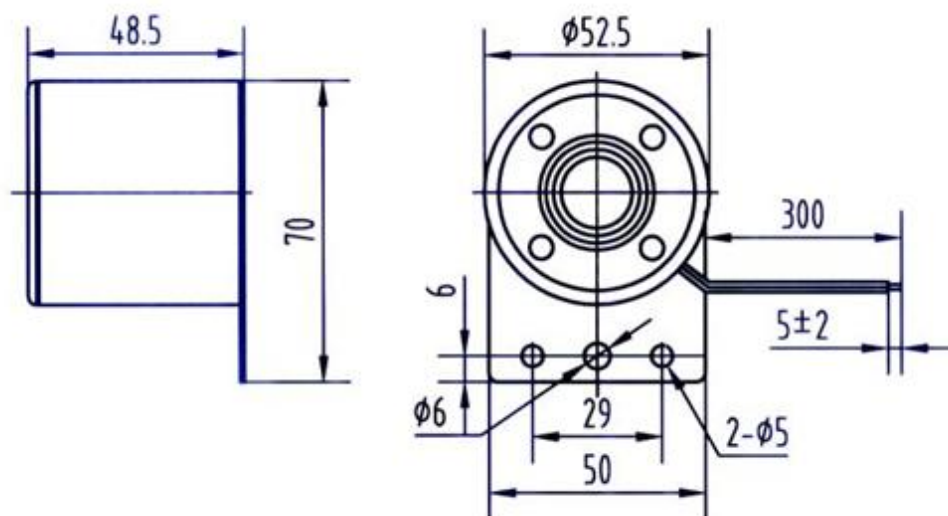
Product Name:	High-Output Piezo Alarm
Part Number:	W-18M24
Version:	1.02
Date:	2019-10-16
Note:	

East is an ISO 9001 , IATF16949 and ISO 14001 Certified Company

Revision History

Rev.	Description	Author/Date	Checked By	Approver
1.02	Quality management system revised	汤礼东 2019-10-16	吕文斌	王建成
1.01	Add Oscillating Frequency	汤礼东 2014-10-28	李建华	王建成
1.0	Released	汤礼东 2012-3-3	张春雷	王建成

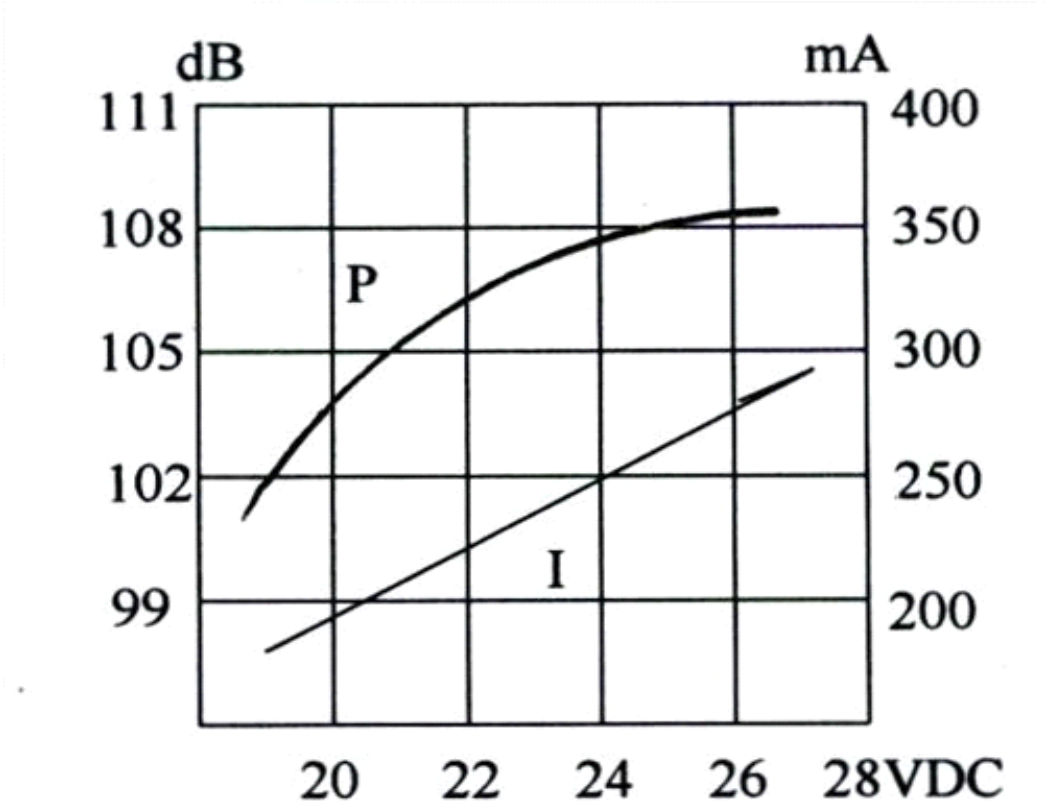
2. Dimension Drawing (Unit: mm)



No.	Item	Specification
3-1	Min. Sound Pressure Level	105dB/24V _{DC} /100cm
3-2	Rated Voltage	24V _{DC}
3-3	Operating Voltage	18~28V _{DC}
3-4	Max. Consumption	400mA/24V _{DC}
3-5	Oscillating Frequency	2.8±0.5KHz
3-6	Tone Nature	Inter Mitten (1~3Hz)
3-7	Operating Temperature	-30~+70°C
3-8	Case Material/Color	ABS/Black
3-9	Weight	53g

Test should be made under the conditions of room temperature ($20\pm 10^{\circ}\text{C}$), normal humidity ($60\pm 20\%$) and normal atmospheric pressure. In this case, however, that the judgment is questionable, the test conditions are to be changed to room temperature $20\pm 2^{\circ}\text{C}$, relative humidity 60~70% and normal atmospheric pressure

4. Typical Frequency Response Curve

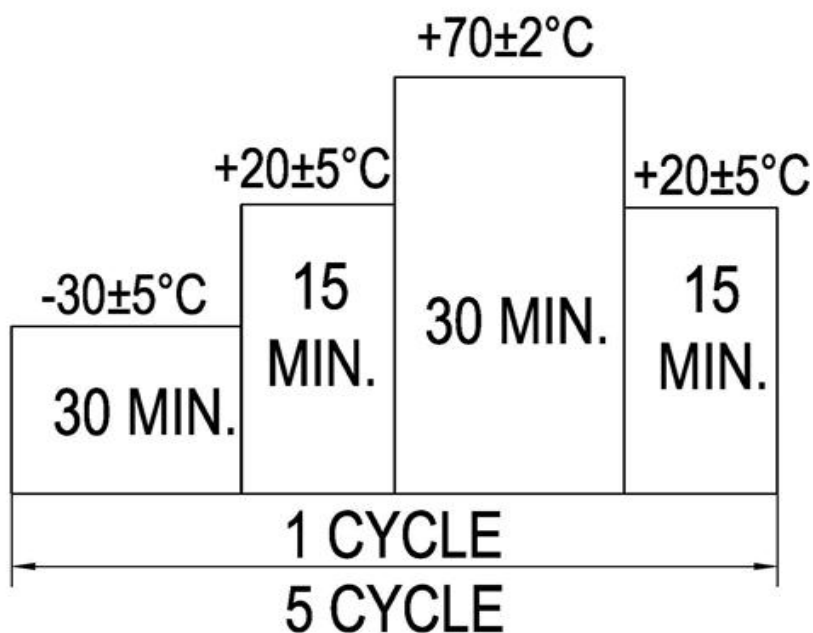


Note:Distance 100 cm

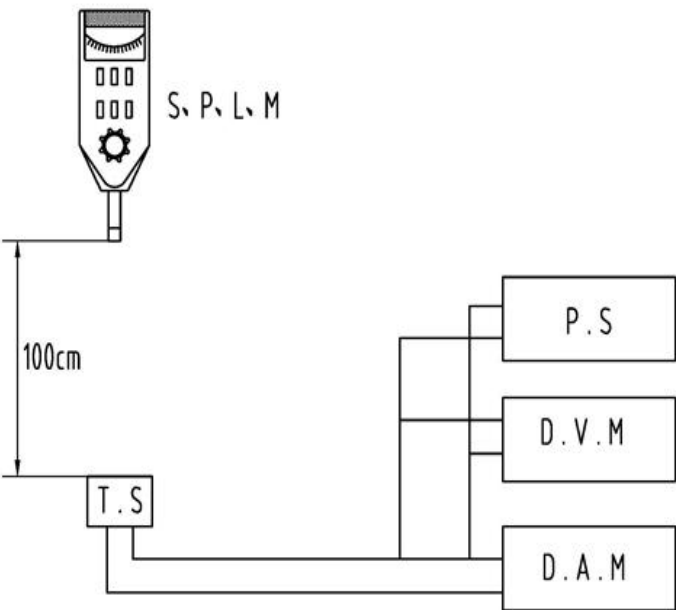
5. Reliability Test

No.	Item	Method of Test	Tolerance after Testing
5-1	Operating Temperature	-30~+70°C	Sound pressure level initial value $\pm 10\text{dB}$ Max. consumption value $\pm 20\%$ Oscillating Frequency $\pm 20\%$
5-2	Storage in high temperature	Storage in +70°C test box 96 hours then exposed to the room temperature for 2 hours	
5-3	Storage in low temperature	Storage in -30°C test box 96 hours then exposed to the room temperature for 2 hours	
5-4	Life test in the room temperature	Operate the product continuously 5 seconds on 5 seconds off 96 hours at rated voltage	
5-5	Temperature / humidity cycle test	Storage in +40°C, 93 \pm 3%RH test box 96 hours then exposed to the room temperature for 2 hours	
5-6	Temperature (high and low) cycle test	Conduct the test for 5 cycles without applying power then expose to the room temperature for 2 hours.(See Figure 5-6)	
5-7	Vibration test	Conduct the test for the directions of X Y and Z for 0.5 hour each (total 1.5 hours). To-and Fri sweep time(from 10 to 55Hz and then 55 to 10) under single amplitude of 0.75mm is 3 minute, then expose to the room temperature for 2 hours	

Figure 5-6



6. Electrical Testing Method



S.P.L.M	Sound Pressure Level Meter
T.S	Testing Sample
P.S	Power Supply
D.V.M	DC Voltage Meter
D.A.M	DC Ampere Meter

7. Packing Information

Packing: 100 pcs per export carton
Carton Size: 47× 30.5× 21 cm
G. Weight: 7.8kgs **N. Weight:** 5.3kgs