



Product Specification

Ningbo East Electronics Limited

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Product Name:	Pi ezo Buzzer
Part Number:	FM 24A- 901A
Ver si on:	1. 02
Dat e:	2019- 9- 5
Not e:	

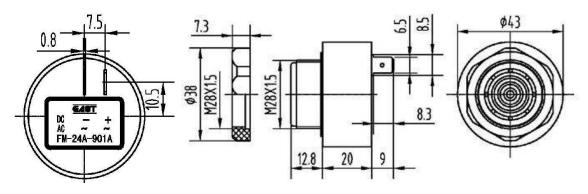
East is an ISO 9001, IATF16949 and ISO 14001Certified Company

Revision History

Rev.	Description	Author/Date	Checked By	Approver
1.02	Quality management system revised	汤礼东 2019-9-5	吕文斌	王建成
1.01	Quality Certificate Symbol revised	吕文斌 2015-2-11	汤礼东	王建成
1.0	Released	陈启旺 2012-4-24	汤礼东	王建成

1. Part Number FM-24A-901A

2. Dimension Drawing (Unit: mm)



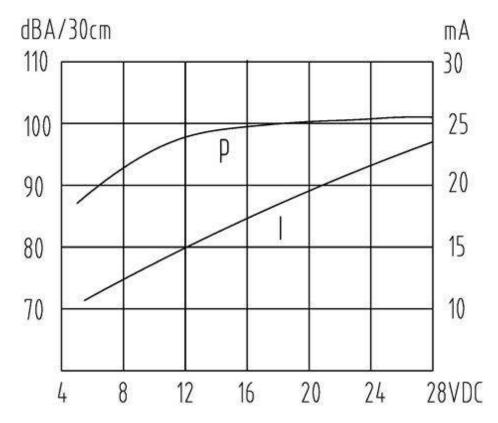
3.Specification

No.	Item	Specification
3-1	Min. Sound Pressure Level	90dB/12V _{DC} /30cm
	Min. Sound Pressure Level	90dB/12V _{AC} /30cm
3-2	Rated Voltage	12V _{AC/DC}
3-3	Operating Voltage	6~28V _{AC/DC}
3-4	Max. Consumption	10mA/12V _{DC}
3-5	Oscillating Frequency	2.9±0.5 kHz
3-6	Tone Nature	Fast Pulse
3-7	Operating Temperature	-20~+70°C
3-8	Case Material/Color	Fire-resistance ABS/Black
3-9	Weight	43g
3-10	Pin Strength	More than 10N

NOTES:

- 1.Fast Pulse f_F=3.0Hz±20%/12V_{DC}
- 2. This product is epoxy-potting type
- 3.Test should be made under the conditions of room temperature $(20\pm10^{\circ}\text{C})$, normal humidity $(60\pm20\%)$ and normal atmospheric pressure. In this case, however, that the judgment is questionable, the test conditions are to be changed to room temperature $20\pm2^{\circ}\text{C}$, relative humidity $60\sim70\%$ and normal atmospheric pressure

4.Typical Frequency Response Curve

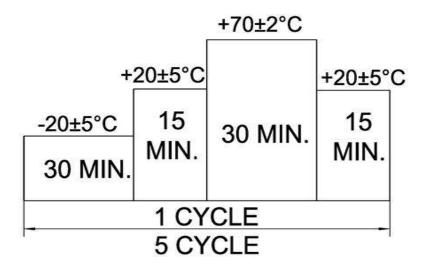


Note:Distance 30 cm

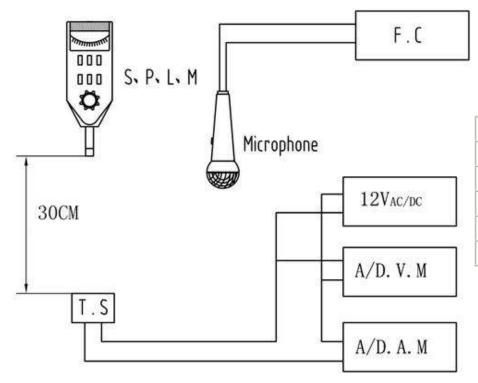
5. Reliability Test

No.	Item	Method of Test	Tolerance after Testing	
5-1	Operating Temperature	-20~+70°C	Sound pressure level initial value ±10dB Max. consumption	
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 -20°C test box 96 hours then exposed to the room temperature for 2 hours	value ±20%	
5-4	Life test in the room temperature	Operate the product continuously 5 seconds on 5 seconds off 300 hours at rated voltage	Oscillating frequency value±20%	
5-5	Temperature / humidity cycle test	Storage in +40°C, 93±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		
5-8	Drop test	Drop a product naturally from the height of 700mm onto the surface of 100mm thick wooden board. Two directions: upper and side of the product are to be applied for this drop test once respectively		

Figure 5-6



6. Electrical Testing Method



S.P.L.M	Sound Pressure Level Meter
T.S	Testing Sample
F.C	Frequency Counter
P.S	Power Supply
A/D.V.M	AC/DC Voltage Meter
A/D.A.M	AC/DC Ampere Meter

7. Packing Information

Packing: 200 pcs per export carton Carton Size: 47× 30.5× 29 cm

G. Weight: 10.2 kgs N. Weight: 8.6 kgs