



Product Specification

Ningbo East Electronics Limited

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Product Name:	Piezo Buzzer
Part Number:	FM-12B-900A
Version:	1.03
Date:	2019-8-20
Note:	

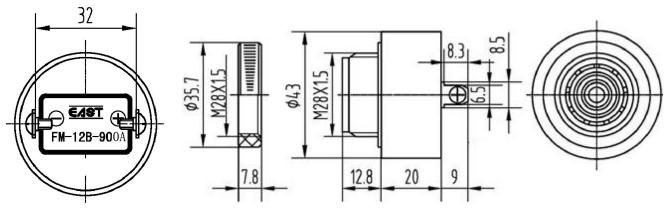
East is an ISO 9001, IATF16949 and ISO 14001Certified Company

Revision History

Rev.	Description	Author/Date	Checked By	Approver
1.03	Quality management system revised	汤礼东 2019-8-20	吕文斌	王建成
1.02	Modify the Curve.	俞凯 2019-7-24	汤礼东	王建成
1.01	Quality Certificate Symbol revised	吕文斌 2015-2-9	汤礼东	王建成

1. Part Number FM-12B-900A

2. Dimension Drawing (Unit: mm)



3.Specification

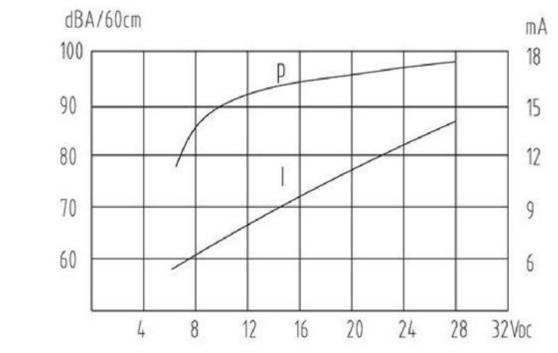
No.	Item	Specification
3-1	Min. Sound Pressure Level	90dB/12V _{DC} /60cm
3-2	Rated Voltage	12V _{DC}
3-3	Operating Voltage	6~28V _{DC}
3-4	Max. Consumption	32mA/12V _{DC}
3-5	Oscillating Frequency	2.9±0.5 kHz
3-6	Tone Nature	Continuous
3-7	Operating Temperature	-20~+70°C
3-8	Case Material/Color	ABS/Black
3-9	Weight	40g
3-10	Pin Strength	More than 10N

NOTES:

1. This series is epoxy-potting type.

2.Test should be made under the conditions of room temperature $(20\pm10^{\circ}C)$, 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 $20\pm2^{\circ}C$, relative humidity $60\sim70\%$ and normal atmospheric pressure

4. Typical Frequency Response Curve

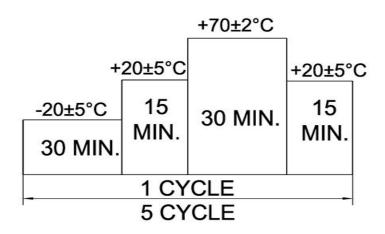


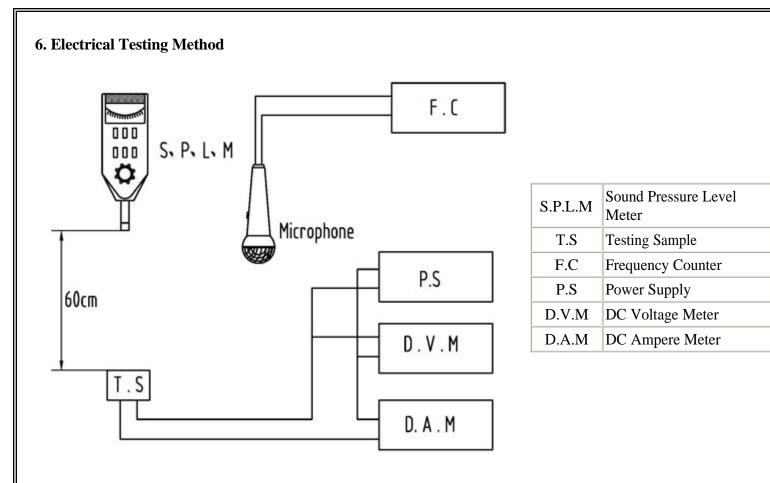
Note:Distance 60 cm

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 value ±20% Oscillating frequency value±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 -20°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 300 hours at rated voltage		
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





7. Packing Information

Packing: 200 pcs per export carton Carton Size: 47× 30.5× 29 cm G. Weight: 9.6 kgs N. Weight: 8.0 kgs