



Product Specification

Ningbo East Electronics Limited

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Product Name:	Piezo Buzzer
Part Number:	EFM-620A
Version:	1.02
Date:	2019-8-19
Note:	

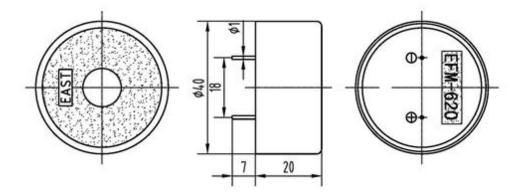
East is an ISO 9001, IATF16949 and ISO 14001Certified Company

Revision History

Rev.	Description	Author/Date	Checked By	Approver
1.02	Quality management system revised	汤礼东 2019-8-19	吕文斌	王建成
1.01	Quality Certificate Symbol revised	吕文斌 2015-2-9	汤礼东	王建成
1.0	Released	汤礼东 2011-12-21	张春雷	王建成

1. Part Number EFM-620A

2. Dimension Drawing (Unit: mm)

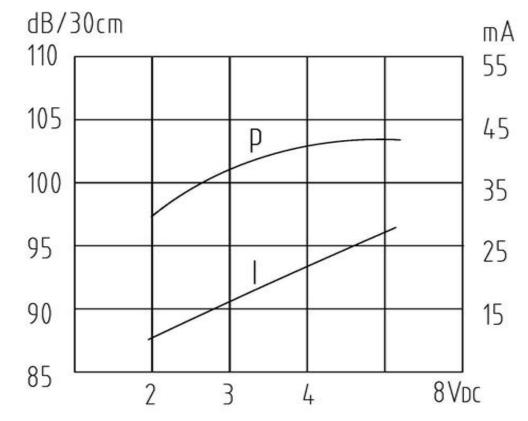


3.Specification

No.	Item	Specification
3-1	Min. Sound Pressure Level	95dB/3V _{DC} /30cm
3-2	Rated Voltage	3V _{DC}
3-3	Operating Voltage	2~7V _{DC}
3-4	Max. Consumption	30mA/3V _{DC}
3-5	Oscillating Frequency	3.2±0.5 kHz
3-6	Operating Temperature	-20~+60°C
3-7	Case Material/Color	PC Lexan 141R /Black
3-8	Weight	13g
3-9	Pin Strength	More than 10N

NOTES:

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



Note:Distance 30 cm

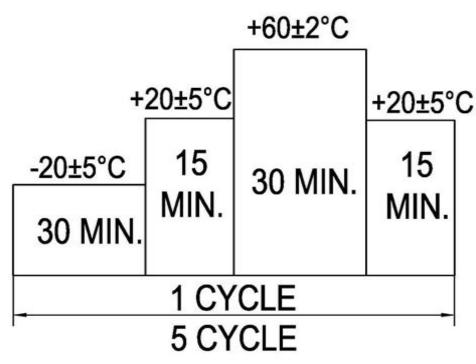
5. Reliability Test

No.	Item	Method of Test	Tolerance after Testing	
5-1	Operating Temperature	-20~+60°C	Sound pressure level	
5-2	Storage in high temperature	Storage in +60°C test box 96 hours then exposed to the room temperature for 2 hours	 initial value ±10dB Max. consumption value ±20% Oscillating Frequency value ±20% 	
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 $+40^{\circ}$ C, $93\pm3\%$ 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)		
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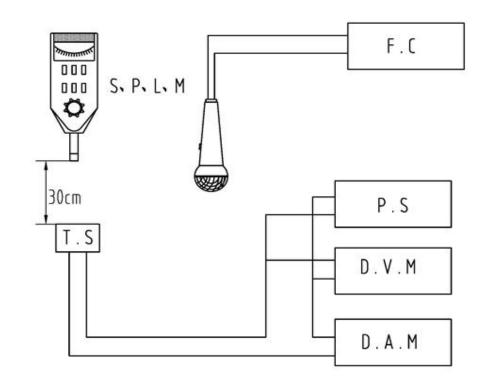
5-7	Vibration test	Conduct the test for the directions of X Y and Z for 0.5 hour each (total 1.5 hours). To-and Fri sweep time(from 10 to 55Hz and then 55 to 10) under single amplitude of 0.75mm is 3 minute, then expose to the room temperature for 2 hours	
5-8	Drop test	Drop a product naturally from 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	-
5-9	Soldering heat resistance test	Dip the connecting pins in soldering at 260±5°C for 10±1 seconds	-
5-10	Test of soldering	Dip the connecting pins in soldering at 230±5°C for 3±0.5 seconds	Solder shall be attached around over 95% of the dipped portion

NOTE: The pins are allowed to deform after drop test.





6. Electrical Testing Method



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

7. Packing Information

Packing: 600 pcs per export carton Carton Size: 47× 30.5× 35 cm G. Weight: 10.6 kgs N. Weight: 7.8 kgs