



# **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:	

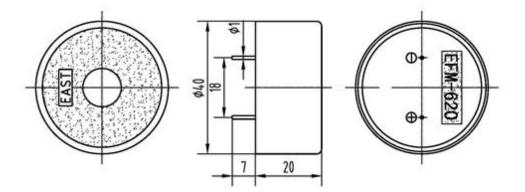
East is an ISO 9001, IATF16949 and ISO 14001Certified Company

#### **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)

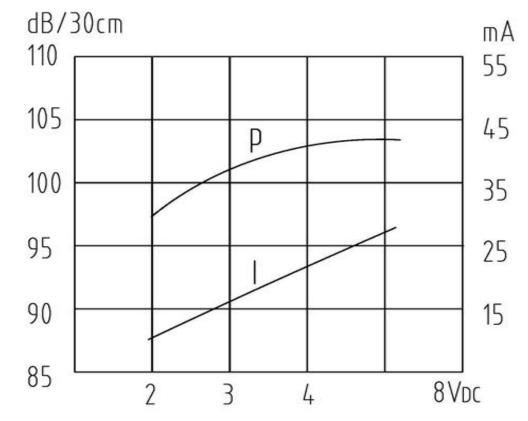


#### **3.Specification**

No.	Item	Specification
3-1	Min. Sound Pressure Level	95dB/3V <sub>DC</sub> /30cm
3-2	Rated Voltage	3V <sub>DC</sub>
3-3	Operating Voltage	2~7V <sub>DC</sub>
3-4	Max. Consumption	30mA/3V <sub>DC</sub>
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

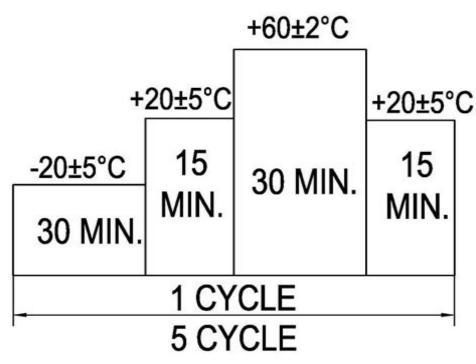
# 5. Reliability Test

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	<ul> <li>initial value ±10dB</li> <li>Max. consumption value ±20%</li> <li>Oscillating Frequency value ±20%</li> </ul>	
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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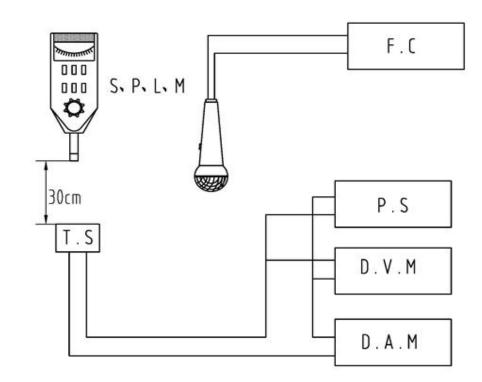
5-7	Vibration test	Conduct the test for the directions of X Y and Z for 0.5 hour each (total 1.5 hours). To-and Fri sweep time(from 10 to 55Hz and then 55 to 10) under single amplitude of 0.75mm is 3 minute, then expose to the room temperature for 2 hours	
5-8	Drop test	Drop a product naturally from 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