



# **Product Specification**

Product Name:	High-Output Piezo Buzzer
Part Number:	EFM-620
Version:	1.02
Date:	2015-7-8
Note:	

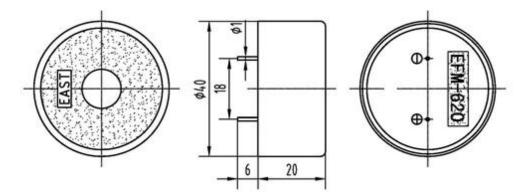
Company passed ISO 9001 / ISO TS16949 / ISO 14001Certifications

#### **Revision History**

Rev.	Description	Author/Date	Checked By	Approver
1.02	SPL is changed from 85db(A) to 90dB(A).	汤礼东 2015-7-8	俞凯	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-620

## 2. Dimension Drawing (Unit: mm)

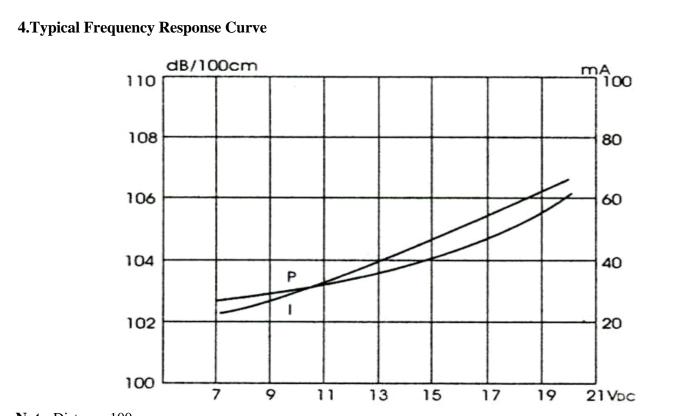


### **3.Specification**

No.	Item	Specification
3-1	Min. Sound Pressure Level	100dB/9V <sub>DC</sub> /100cm
	Min. Sound Pressure Level	90dB/7.5V <sub>DC</sub> /300cm
3-2	Rated Voltage	9V <sub>DC</sub>
3-3	Operating Voltage	7~20V <sub>DC</sub>
3-4	Max. Consumption	50mA/9V <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	13.0g
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



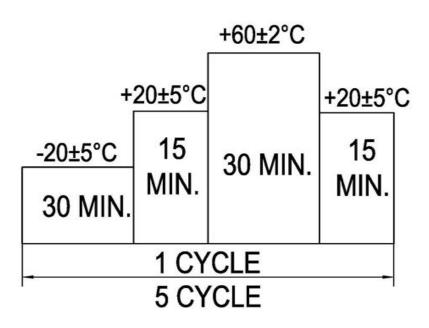
Note:Distance 100 cm

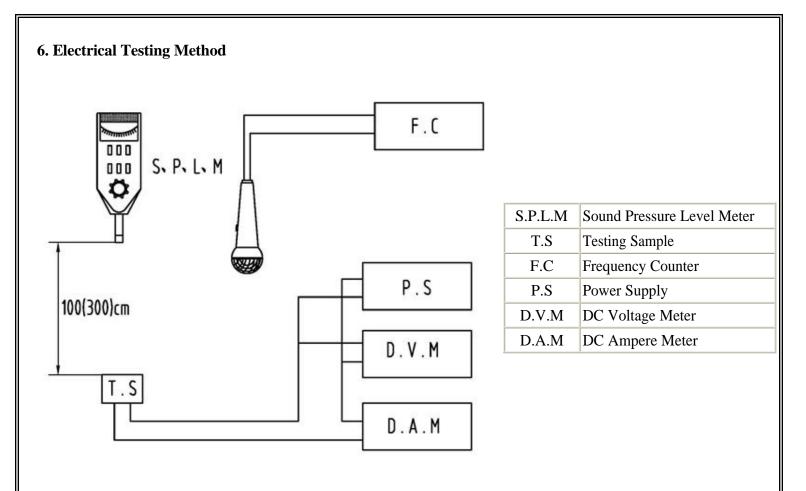
## 5. Reliability Test

No.	Item	Method of Test	Tolerance after Testing	
5-1	Operating Temperature	-20~+60°C	Sound pressure level initial value ±10dB Max. consumption	
5-2	Storage in high temperature	Storage in $+60^{\circ}$ 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, $93\pm3\%$ 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)		
5-7	Vibration testConduct 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			
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	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	
<b>NOTE</b> : The pins are allowed to deform after drop test.				1	

Figure 5-6





#### 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