



# **Product Specification**

Ningbo East Electronics Limited

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Product Name:	Piezo Buzzer
Part Number:	FM-12C-907P
Version:	1.03
Date:	2019-8-20
Note:	

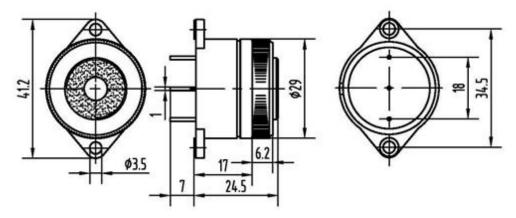
East is an ISO 9001, IATF16949 and ISO 14001Certified Company

### **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	Carton size height changed to 19 cm	汤礼东 2016-12-20	俞凯	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-12C-907P

## 2. Dimension Drawing (Unit: mm)



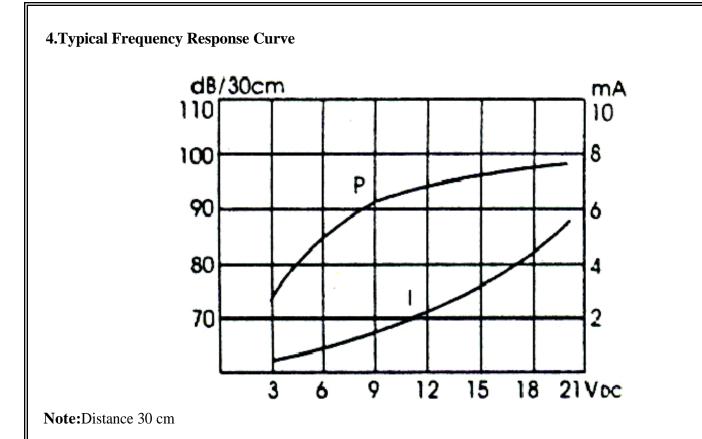
### **3.Specification**

No.	Item	Specification
3-1	Min. Sound Pressure Level	90dB/12V <sub>DC</sub> /30cm
3-2	Rated Voltage	12V <sub>DC</sub>
3-3	Operating Voltage	3~20V <sub>DC</sub>
3-4	Max. Consumption	10mA/12V <sub>DC</sub>
3-5	Oscillating Frequency	3.7±0.5 kHz
3-6	Tone Nature	Continuous+ Slow Pulse
3-7	Operating Temperature	-20~+70°C
3-8	Case Material/Color	ABS/Black
3-9	Weight	13g
3-10	Pin Strength	More than 10N

#### NOTES:

1.Slow Pulse fs=1.6Hz $\pm$  20%.

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

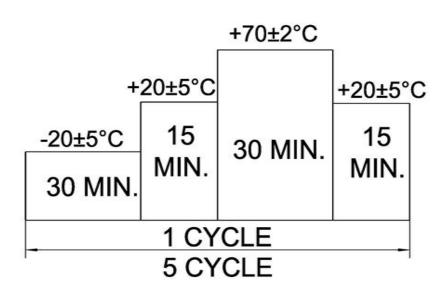


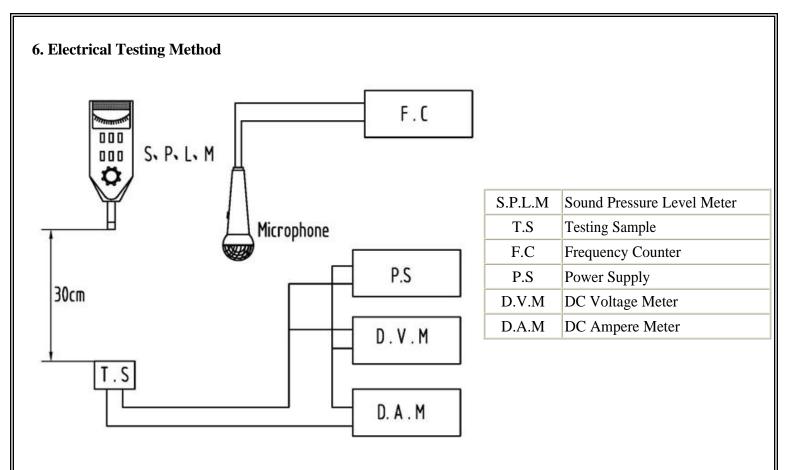
## 5. Reliability Test

No.	Item	Method of Test	Tolerance after Testing	
5-1	Operating Temperature	-20~+70°C	Sound pressure level	
5-2	Storage in high temperature	Storage in +70°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°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	
	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.				

Figure 5-6





7. Packing Information

Packing: 630 pcs per export carton Carton Size: 47× 30.5× 19 cm G. Weight:9.7 kgs N. Weight:8.2 kgs