



Product Specification

Product Name:	Piezo Buzzer
Part Number:	EFM-260R
Version:	1.01
Date:	2015-2-6
Note:	

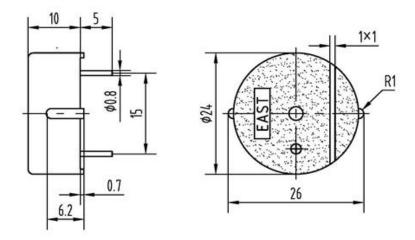
Company passed ISO 9001 / ISO TS16949 / ISO 14001Certifications

Revision History

Rev.	Description	Author/Date	Checked By	Approver
1.01	Quality Certificate Symbol revised	吕文斌 2015-2-6	汤礼东	王建成
1.0	Released	汤礼东 2011-12-30	张春雷	王建成

1. Part Number EFM-260R

2. Dimension Drawing (Unit: mm)



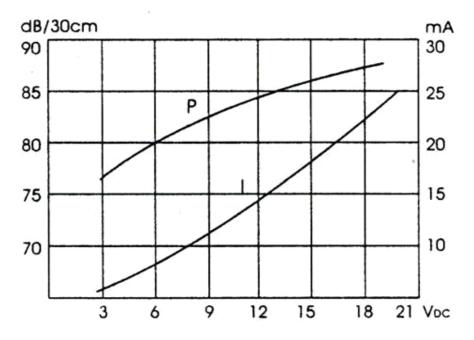
3.Specification

No.	Item	Specification
3-1	Min. Sound Pressure Level	85dB/12V _{DC} /30cm
3-2	Rate Voltage	12V _{DC}
3-3	Operating Voltage	3~24V _{DC}
3-4	Max. Consumption	15mA/12V _{DC}
3-5	Oscillating Frequency	3.0± 0.5kHz
3-6	Tone Nature	Continuous
3-7	Operating Temperature	-20~+70°C
3-8	Storage Temperature	-20~+70°C
3-9	Case Material /Color	PC/Black
3-10	Weight	4.5g
3-11	Pin Strength	More than 10N

NOTES:

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

4. Typical Frequency Response Curve



Note: Distance 30cm

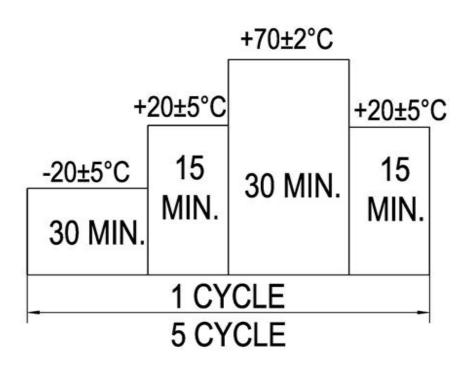
5. Reliability Test

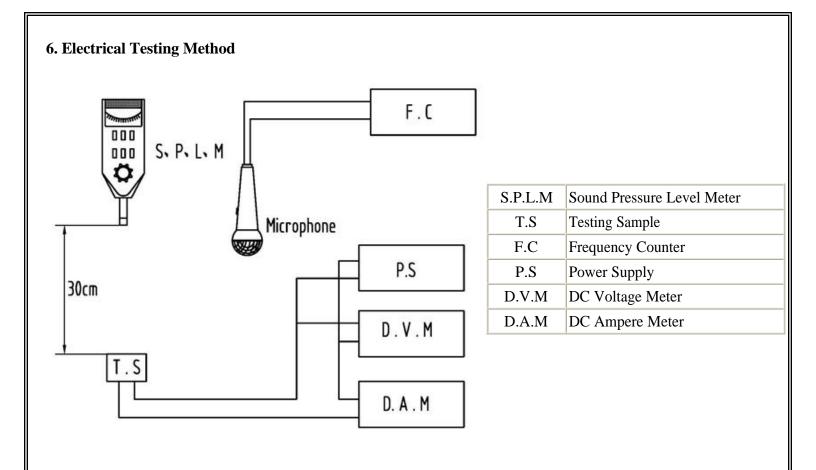
No.	Item	Method of Test	Tolerance after Testing	
5-1	Operating Temperature	-20~+70°C	Sound pressure level	
5-2	Storage in high temperature	Storage in $+70^{\circ}$ C test box 96 hours then exposed to the room temperature for 2 hours	initial value ±10dB Max. consumption value ±20% Oscillating Frequency 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°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 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: 2400 pcs per export carton Carton Size: 47× 30.5× 35 cm G. Weight: 12.8 kgs N. Weight: 10.8 kgs