



Product Specification

Product Name:	Piezo Buzzer
Part Number:	EFM-236ML
Version:	1.01
Date:	2015-1-31
Note:	

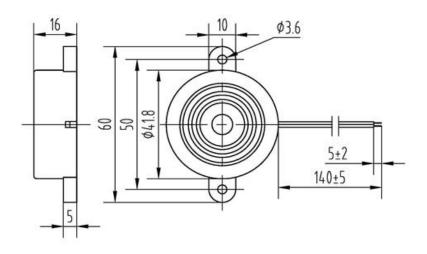
Company passed ISO 9001 / ISO TS16949 / ISO 14001Certifications

Revision History

Rev.	Description	Author/Date	Checked By	Approver
1.01	Quality Certificate Symbol revised	吕文斌 2015-1-31	汤礼东	王建成
1.0	Released	汤礼东 2011-11-21	张春雷	王建成

1. Part Number EFM-236ML

2. Dimension Drawing (Unit: mm)



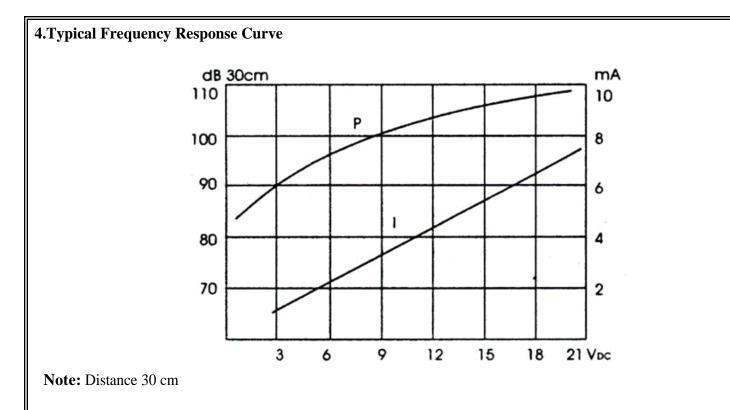
3.Specification

No.	Item	Specification
3-1	Min. Sound Pressure Level	100dB/12V _{DC} /30cm
3-2	Rate Voltage	12V _{DC}
3-3	Operating Voltage	3~20V _{DC}
3-4	Max. Consumption	15mA/12V _{DC}
3-5	Oscillating Frequency	2.9± 0.5kHz
3-6	Tone Nature	Slow Pulse
3-7	Operating Temperature	-20~+70°C
3-8	Case Material /Color	ABS/Black
3-9	Weight	14.4g
3-10	Wire Standard	UL1095-26AWG

NOTE:

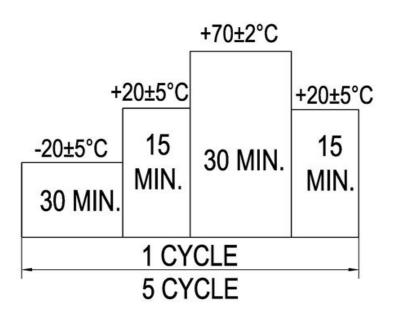
1. Slow Pulse f=1.2Hz±20%.

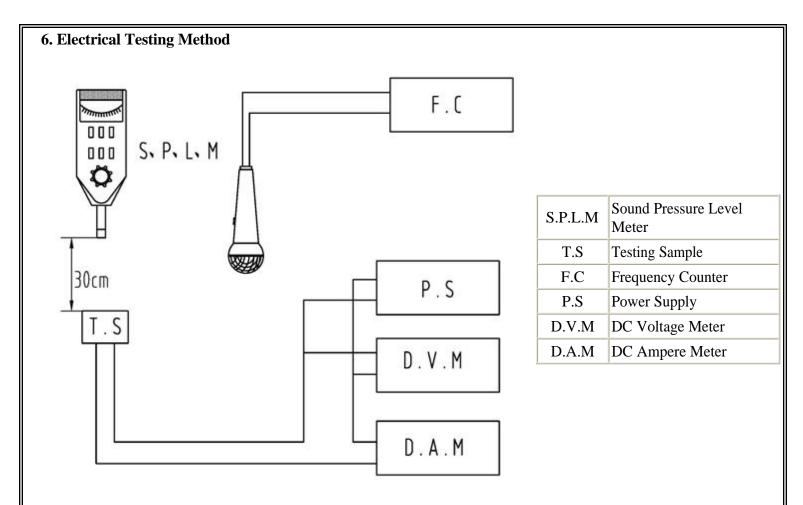
2. Test should be made under the conditions of room temperature $(20\pm10^{\circ}C)$, normal humidity $(60\pm20\%)$ and normal atmospheric pressure. In this case, however, that the judgment is questionable, the test conditions are to be changed to room temperature $20\pm2^{\circ}C$, relative humidity $60\sim70\%$ and normal atmospheric pressure.



No.	Item	Method of Test	Tolerance after Testing			
5-1	Operating Temperature	-20~+70°C	Sound pressure level initial value ±10dB Max. consumption		-	
5-2	Storage in high temperature	Storage in $+70^{\circ}$ 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	value ±20%			
5-5	Temperature / humidity cycle test	Storage in $+40^{\circ}$ C, $93\pm3^{\circ}$ 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				

Figure 5-6





7. Packing Information

Packing: 850 pcs per export carton Carton Size: 47× 30.5× 25 cm G. Weight: 14.6 kgs N. Weight: 12.2 kgs