



Product Specification

Ningbo East Electronics Limited

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Product Name:	Pi ezo Buzzer
Part Number :	EFM 260A
Ver si on:	1. 04
Dat e:	2019- 11- 5
Not e:	

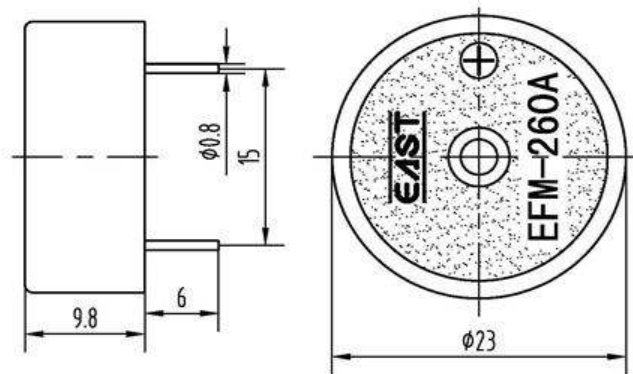
East is an ISO 9001 , IATF16949 and ISO 14001 Certified Company

Revision History

Rev.	Description	Author/Date	Checked By	Approver
1.04	Quality management system revised	汤礼东 2019-11-5	吕文斌	王建成
1.03	Update the packing information.	俞凯 2015-12-11	汤礼东	王建成
1.02	Quality Certificate Symbol revised	吕文斌 2015-1-31	汤礼东	王建成

1. Part Number EFM-260A

2. Dimension Drawing (Unit: mm)



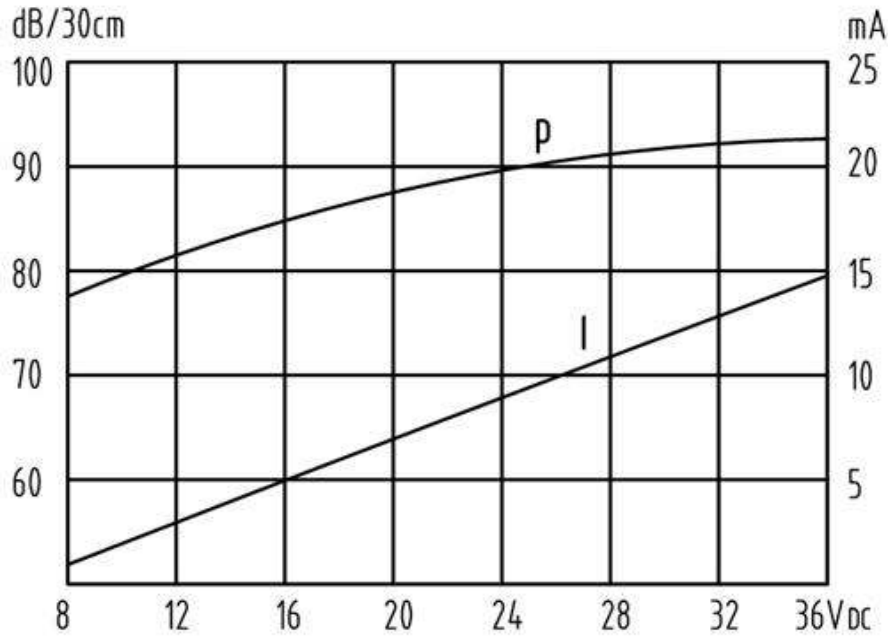
3. Specification

No.	Item	Specification
3-1	Min. Sound Pressure Level	85dB/24V _{DC} /30cm
3-2	Rate Voltage	24V _{DC}
3-3	Operating Voltage	8~36V _{DC}
3-4	Max. Consumption	12mA/24V _{DC}
3-5	Oscillating Frequency	3.5± 0.5kHz
3-6	Tone Nature	Continuous
3-7	Operating Temperature	-40~+85°C
3-8	Storage Temperature	-40~+85°C
3-9	Case Material /Color	PC/Black
3-10	Weight	4g
3-11	Pin Strength	More than 10N

NOTES:

Test should be made under the conditions of room temperature (20±10°C), normal humidity (60±20%) and normal atmospheric pressure. In this case, however, that the judgment is questionable, the test conditions are to be changed to room temperature 20±2°C, relative humidity 60~70% and normal atmospheric pressure

4. Typical Frequency Response Curve



Note: Distance 30cm

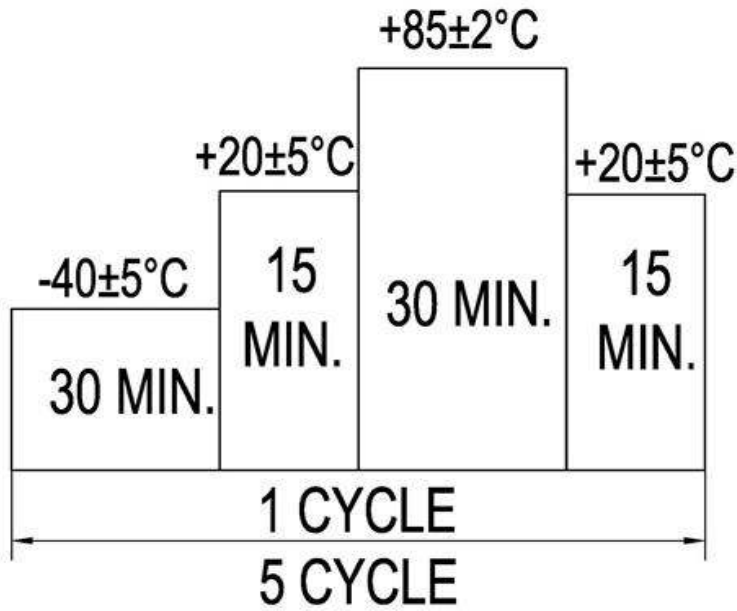
5. Reliability Test

No.	Item	Method of Test	Tolerance after Testing
5-1	Operating Temperature	-40~+85°C	Sound pressure level initial value $\pm 10\text{dB}$ Max. consumption value $\pm 20\%$ Oscillating Frequency Value $\pm 20\%$
5-2	Storage in high temperature	Storage in +85°C test box 96 hours then exposed to the room temperature for 2 hours	
5-3	Storage in low temperature	Storage in -40°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 \pm 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	

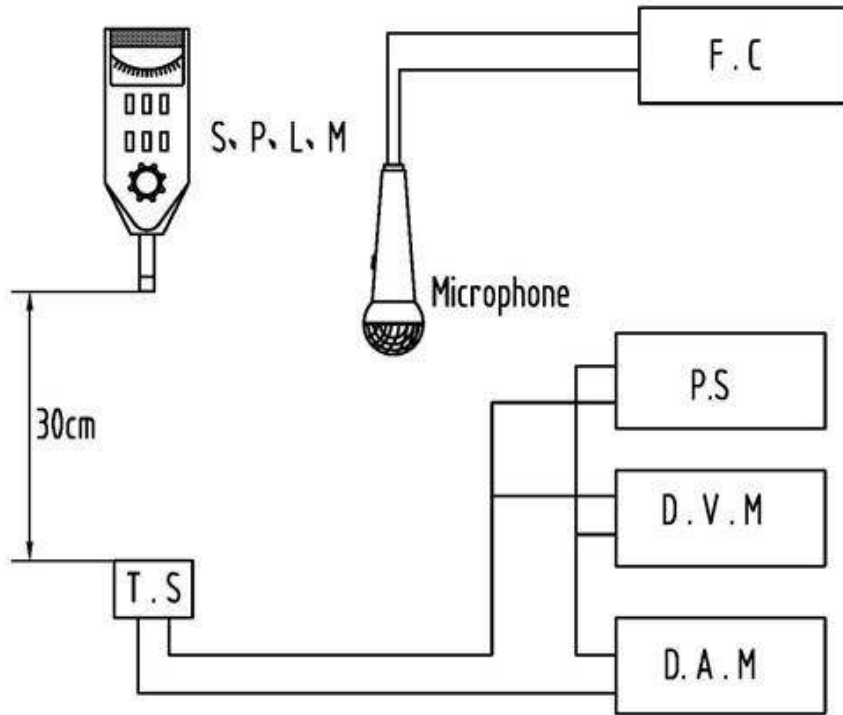
5-9	Soldering heat resistance test	Dip the connecting pins in soldering at $260\pm 5^{\circ}\text{C}$ for 10 ± 1 seconds	
5-10	Test of soldering	Dip the connecting pins in soldering at $230\pm 5^{\circ}\text{C}$ for 3 ± 0.5 seconds	Solder shall be attached around over 95% of the dipped portion

NOTE: The pins are allowed to deform after drop test.

Figure 5-6



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: 2288 pcs per export carton

Carton Size: 47× 30.5× 35 cm

G. Weight: 11.1 kgs **N. Weight:** 9.2 kgs