



Product Specification

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Product Name:	Piezo Buzzer
Part Number:	FM-12C-901L
Version:	1.02
Date:	2019-8-20
Note:	

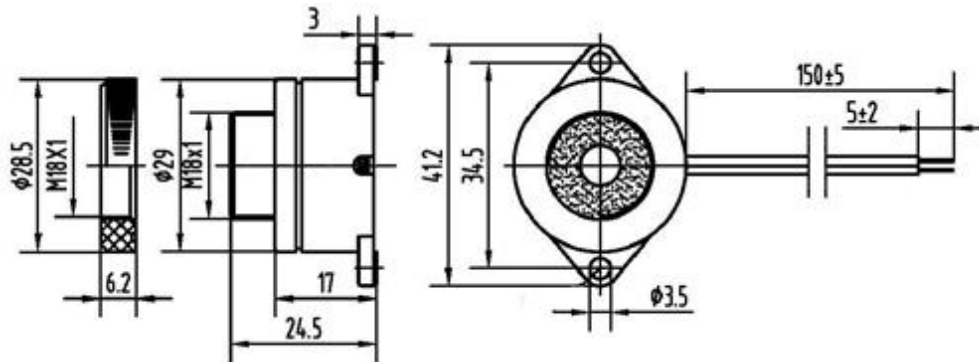
East is an ISO 9001 , IATF16949 and ISO 14001 Certified Company

Revision History

Rev.	Description	Author/Date	Checked By	Approver
1.02	Quality management system revised	汤礼东 2019-8-20	吕文斌	王建成
1.01	Quality Certificate Symbol revised	吕文斌 2015-2-9	汤礼东	王建成
1.0	Released	陈启旺 2012-4-21	汤礼东	王建成

1. Part Number FM-12C-901L

2. Dimension Drawing (Unit: mm)



3. Specification

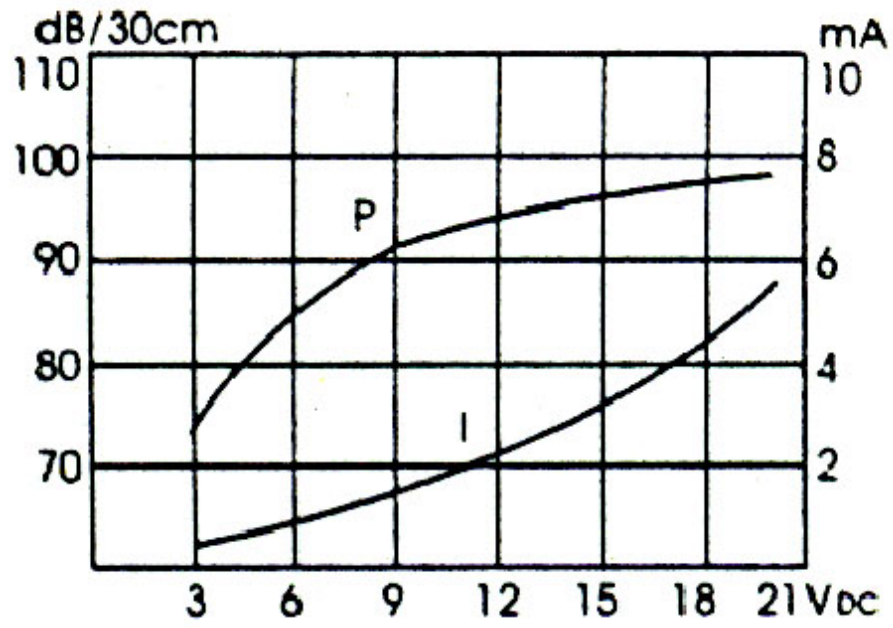
No.	Item	Specification
3-1	Min. Sound Pressure Level	90dB/12V _{DC} /30cm
3-2	Rated Voltage	12V _{DC}
3-3	Operating Voltage	3~20V _{DC}
3-4	Max. Consumption	10mA/12V _{DC}
3-5	Oscillating Frequency	3.7± 0.5 kHz
3-6	Tone Nature	Fast Pulse
3-7	Operating Temperature	-20~+70°C
3-8	Case Material/Color	ABS/Black
3-9	Weight	12.3g
3-10	Wire Standard	UL1095-28AWG

NOTES:

1. Fast Pulse $f_F=3.3\text{Hz}\pm 20\%$.

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

4. Typical Frequency Response Curve



Note:Distance 30 cm

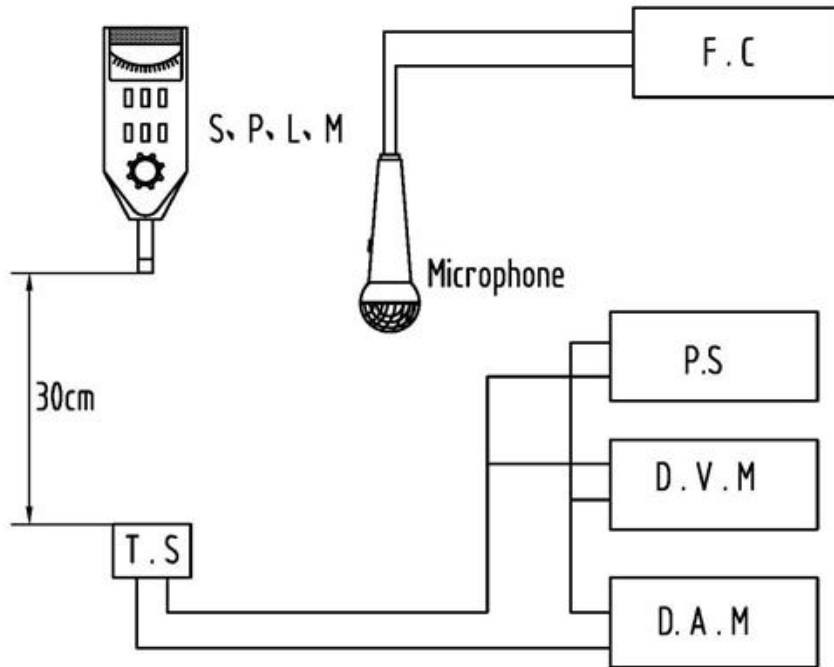
5. Reliability Test

No.	Item	Method of Test	Tolerance after Testing
5-1	Operating Temperature	-20~+70°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 +70°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	
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	

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: 1100 pcs per export carton

Carton Size: 47× 30.5× 25 cm

G. Weight:16.7 kgs N. Weight:13.5 kgs