



Product Specification

Ningbo East Electronics Limited

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Product Name:	Magnetic Transducer
Part Number:	EMX-2T01P50
Version:	1.02
Date:	2019-11-6
Note:	

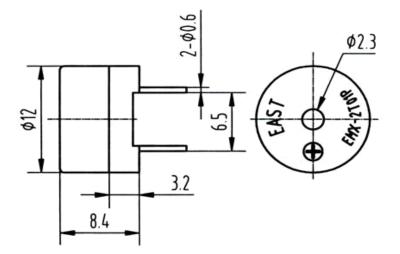
East is an ISO 9001, IATF16949 and ISO 14001Certified Company

Revision History

Rev.	Description	Author/Date	Checked By	Approver
1.02	Quality management system revised	汤礼东 2019-11-6	吕文斌	王建成
1.01	Quality Certificate Symbol revised	吕文斌 2015-2-4	汤礼东	王建成
1.0	Released	汤礼东 2012-3-21	陈启旺	王建成

1. Part Number EMX-2T01P50

2. Dimension Drawing (Unit: mm)

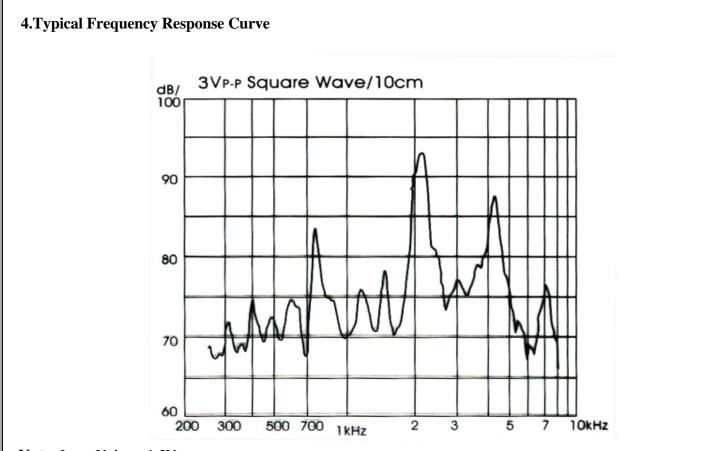


3.Specification

No.	Item	Specification
3-1	Min. Sound Pressure Level	80dB/2048Hz/1.5V /10cm
3-2	Rated Voltage	1.5V
3-3	Operating Voltage	1 ~ 2V
3-4	Max. Consumption(At1.5V _{DC})	10mA/2048Hz/3Vp-p square wave
3-5	Coil Resistance	50±7.5Ω
3-6	Coil Impedance	140Ω
3-7	Resonant Frequency	2048Hz
3-8	Operating Temperature	-20~+70°C
3-9	Case Material /Color	PPO/Black
3-10	Weight	1.7g
3-11	Pin Strength	More than 10N

NOTES:

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



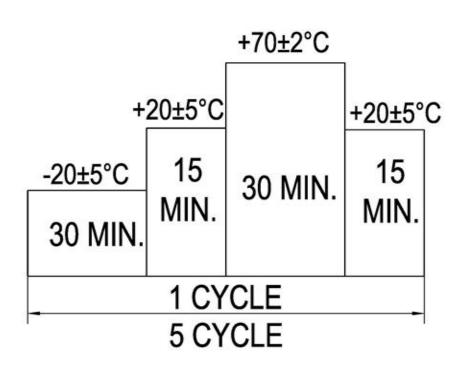
Note: Input Voltage 1.5V Distance 10 cm

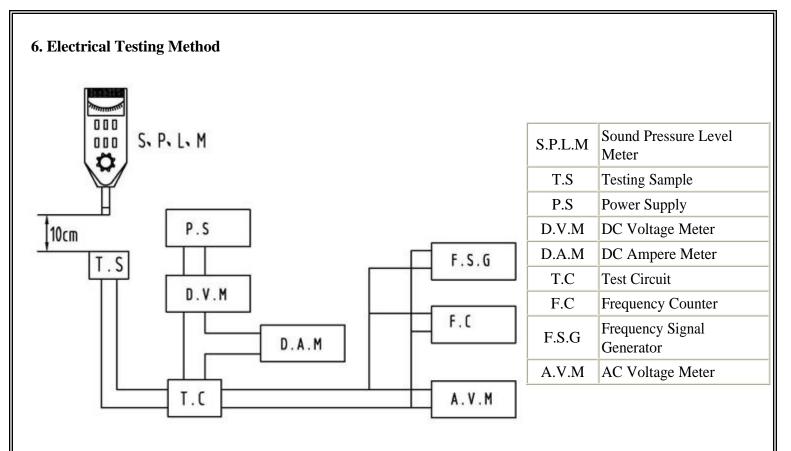
5. Reliability Test

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	initial value ±10dB Max. consumption 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		
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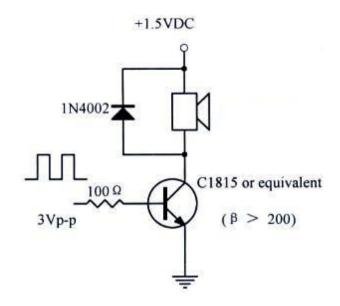
5-8	Drop test	Drop a product naturally from the height of 700mm onto the surface of 100mm thick wooden board. Two directions: upper and side of the product are to be applied for this drop test once respectively	
5-9	Soldering heat resistance test	Dip the connecting pins in soldering at 260±5°C for 10±1 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





TEST CIRCUIT:



7. Packing Information

Packing: 3000 pcs per export carton Carton Size: 47× 25× 28 cm G. Weight: 4.8 kgs N. Weight: 3.3 kgs