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Component Specification

Product : Magnetic Transducer

Part Number : CA-M1209A-122485T

Drawing No : DRW1103711

Content

- 1. General
- 2. Electrical & Acoustical Characteristics
- 3. Test Circuit
- 4. Frequency Characteristics
- 5. Dimensions & Structure
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1) General

This product is applied to our standard the magnetic transducer specification. Please contact us for customer specific solutions.

2) Electrical & Acoustical Specifications

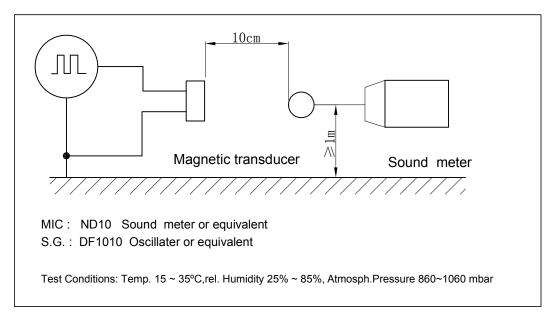
	Туре	Specification
1	Rated Voltage (Square Wave)	12V
2	Operating Voltage	8~16V
3	Max. Rated Current	50mA
5	Sound Pressure Level	≥85dB
6	Resonance Frequency	2400 Hz
7	Coil Resistance	140±21 Ω
8	Housing Material	Noryl
9	Operating Temperature Range -30+76	
10	Store Temperature Range -40+85°C	
11	Weight 2g	
12	Hight	9.0mm
13	Diameter	Ø12mm

1.0	16.09.11		L. Hua	T. Feng	G. Schubert
Revision	Date	Notes	Drawn by	Checked by	Approved by

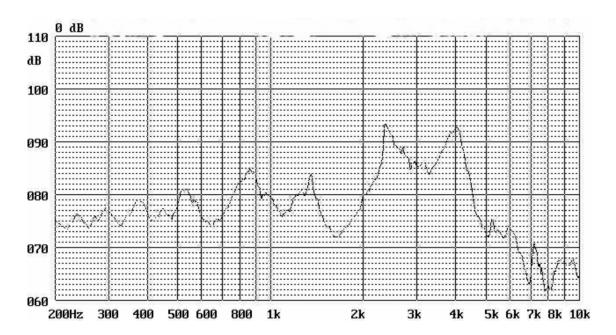


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3) Test Circuit



4. Frequency Characteristics

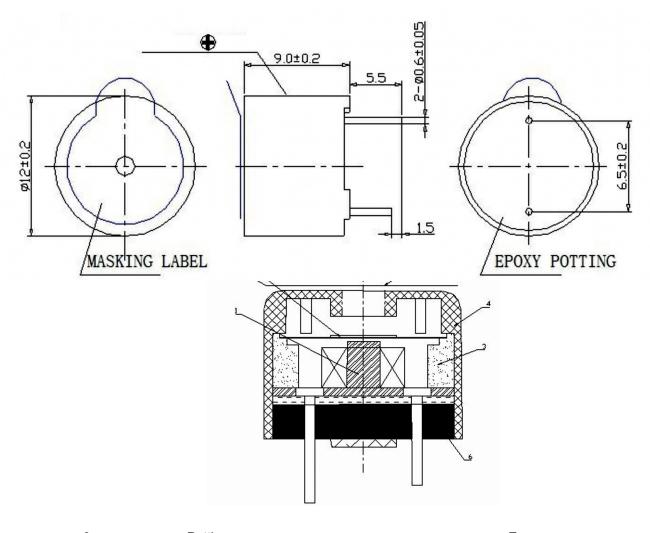


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5) Dimensions & Structure



6	Potting		Exopy
5	Masking label	1	Paper
4	Housing	1	Noryl
3	Magentism	1	Ferrite
2	Diaphragm	1	Iron
1	Coil Part	1	Copper And Iron
Part No.	Part Name	Quantity	Material

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6) Reliability Test

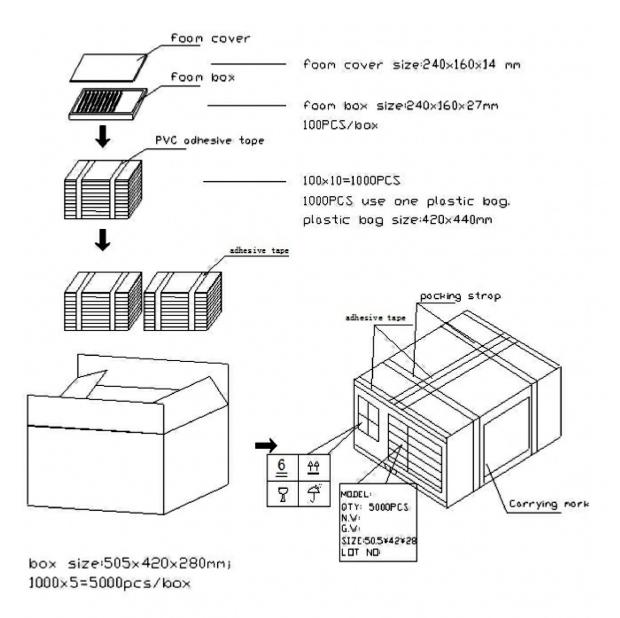
No	Items	Specification		
1	Heat Resisance (Storage)	Storage in +85°C±2°C test box for 96 hours ☐ then expose to the room temperature for 2 hours without applying power.		
2	Cold Resistance (Storage)	After being placed in a chamber with -40±2°C for 240 hours and then being placed in natural condition for 4 hours, diaphragm shall be measured		
3	Thermal Cycle Test	+80°C +20°C +20°C +20°C 30min 15min 30min 15min 15m		
4	Vibration Test	9. 3g Amplitude: 1. 5mm Time: lmin/axis Make this test for the directions of X,Y, Z for 2 hours each (total 6 hours).		
5	Temp./Humidity Resistance	Storage in +40°C±2°C 90-95%RH test box for 96 hours, then expose to the room temperature for 2 hours without applying power.		
6	Drop Test	Free drop a unit from the height 100cm to the surface of 10mm thick board ,three directions(X,Y,Z).		
7	Solderability Test	Soldering temp.:260±5°C Heat applying time: 3±0.5sec.		
8	Test pass creteria	After above test the S.P.L deviation should be within ±5 dB		

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7) Packing



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8) Revision

Rev. No	Date	Page	Describtion	Sign
10	16.09.2011	all	Production release	Wang.Xue

1.0	16.09.11		L. Hua	T. Feng	G. Schubert
Revision	Date	Notes	Drawn by	Checked by	Approved by