SPECIFICATION

FOR
APPROVAL

Customer :

Description : Magnetic Transducer

Universal Model No. : EBP.12.1,5.2,8.U.BF

Customer's Model No. :

ISSUE	CHECK	APPROVAL	CUSTOMER
ZhangQiYuan 06/13/08	ShiCong 06/13/08	WangXueWen 06/13/08	

Compro Electronic GmbH

Beim Alten Flugplatz 3

49377 Vechta, Germany

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1. ELECTRICAL AND ACOUSTICAL SPECIFICATION

	Item	Unit	Specifications
1-1	Rated Voltage (Square Wave)	V	1.5
1-2	Operating Voltage	V	1-3
1-3	* Rated Current (Max)	mA	30
1-4	* Min Sound Output at 10cm	dB	85
1-5	* Resonant Frequency	Hz	2048
1-6	Coil Resistance	Ω	16±4
1-7	Operating Temperature	℃	-30~+75
1-8	Storage Temperature	℃	-40~+85
1-9	Weight	g	2
1-10	Housing Material	NORYL	
1-11	Lead Pin Material	Red Copper (DSn)	

* Value Applying at Rated Voltage (resonant frequency , 1/2 duty , square wave)

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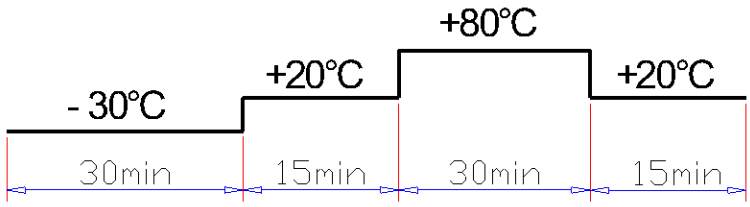
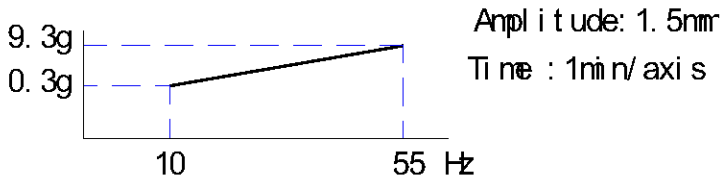
2.ENVIRONMENTAL TEST

	Item	Specifications
2-1	Storage in High temp.	Storage in +80℃±2℃ test box for 240 hours , then expose to the room temperature for 2 hours without applying power.
2-2	Storage in Lower temp.	Storage in -30℃±2℃ test box for 240 hours , then expose to the room temperature for 2 hours without applying power.
2-3	Storage in Humidity	Storage in +40℃±2℃ 90-95%RH test box for 96 hours, then expose to the room temperature for 2 hours without applying power.
2-4	Thermal cycle test.	 Make this test for 5 cycles without applying power,then expose to the room temperature for 2 hours.
2-5	Vibration test	 Make this test for the directions of X,Y, Z for 2 hours each (total 6 hours).
2-6	Drop test	Free drop a unit from the height 100cm to the surface of 10mm thick board ,three directions(X,Y,Z).
2-7	Solderability test	Soldering temp.:260±5℃ Heat applying time: 3±0.5sec.

PASS CRITERION :

After these tests , the change of S.P.L shall be within ±5 dB .

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3.MEASURING METHOD(BUZZER MODE)

3-1 .Test Condition

3-1-1.STANDARD

Temperature : 25±3℃

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

3-1-2.JUDGEMENT

Temperature : 15 ~ 35℃

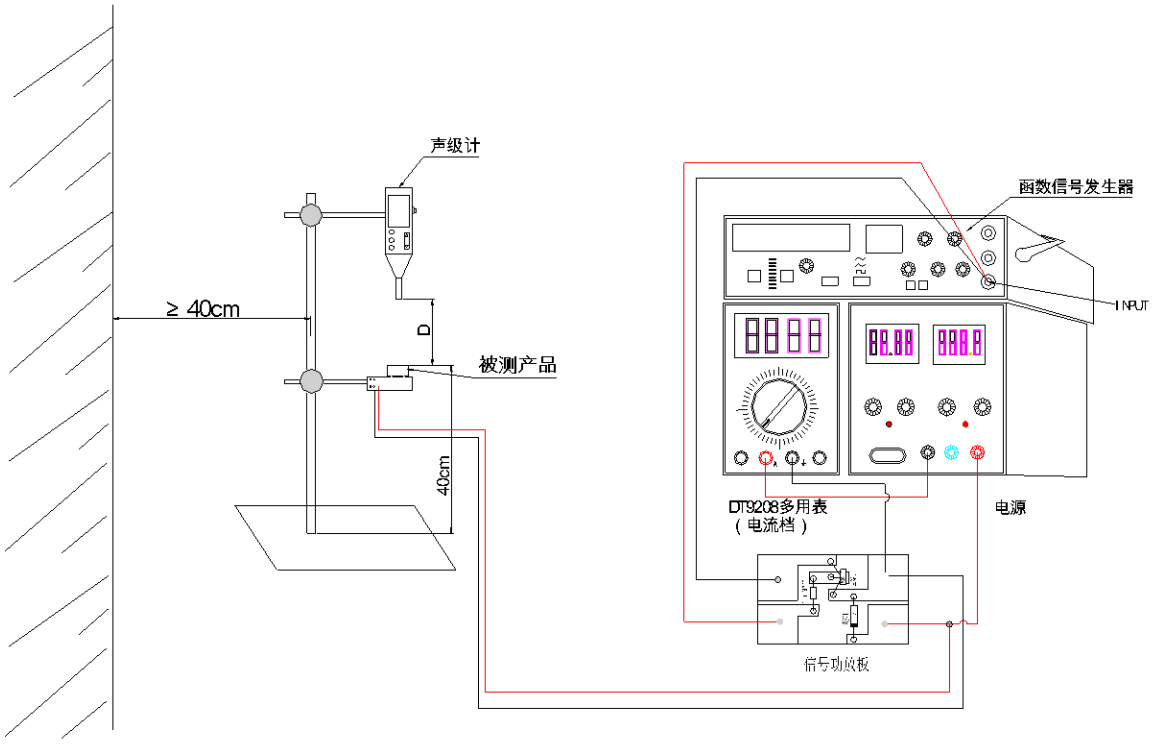
Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

3-2 . Standard Test Fixture

1.rated Voltage(Square wave):12V

2.Resonant Frequency:4500Hz



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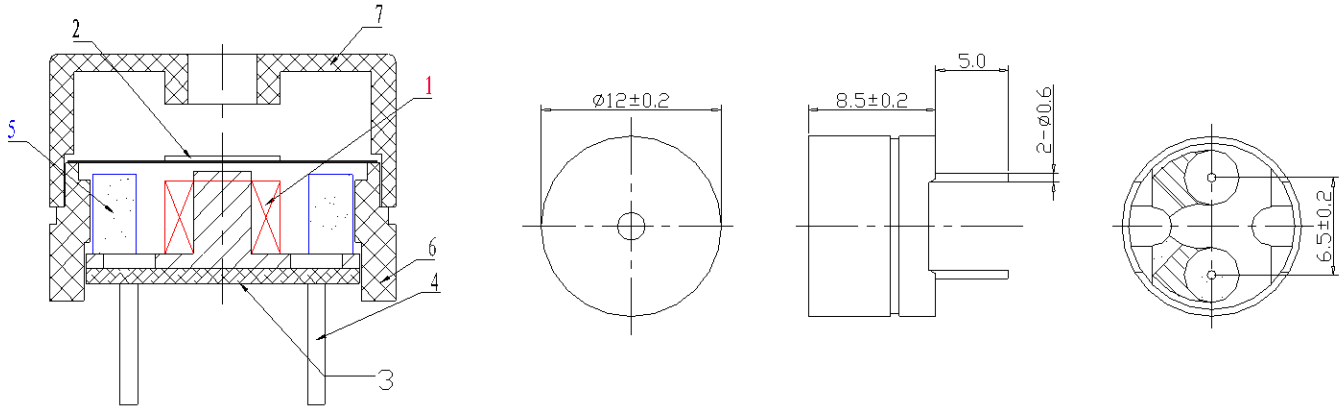
5.DIMENSIONS

Unless otherwise specified,tolerance:±0.5(unit:mm)



Cadmium(Cd)/Cndmium Compounds	≤100ppm
Lead (Pb) / Lead Compounds	≤800ppm
Mercury (Hg) Merrcury Compounds	≤800ppm
Hexavalent-Chromium (Cr6+) Compounds	≤800ppm
PBB	≤800ppm
PBDE	≤800ppm

1) All parts must be meet to ROHS.

2) Wave solder allowed , wash not allowed.

Part No.	Part Name	Q'TY	Material	Remark
7	Housing	1	Noryl	
6	Housing	1	Noryl	
5	Core	1	Ferrite	
4	PIN	2	Red Copper	
3	PCB	1	Exopy	
2	Diaphragm	1	Iron	
1	Coil Part	1	Copper And Iron	

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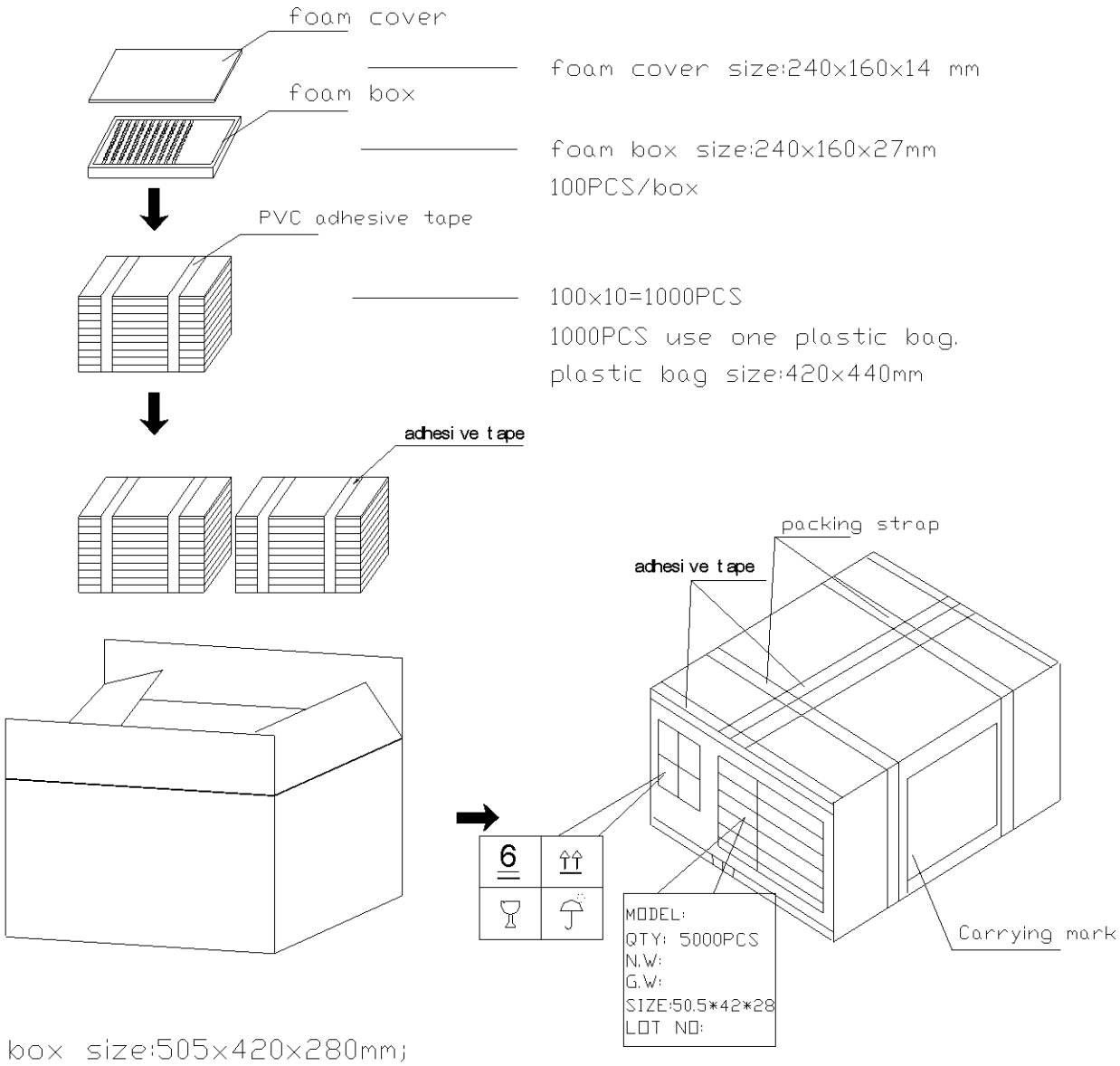
7.PACKING



foam cover size:240x160x14 mm

foam box size:240x160x27mm
100PCS/box

100x10=1000PCS
1000PCS use one plastic bag.
plastic bag size:420x440mm

box size:505x420x280mm;
1000x5=5000pcs/box

		07/07/07	TangYuJing	ShiCong	WangXueWen
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