

SPECIFICATION

FOR APPROVAL

Customer : _____

Description : _____ Magnetic Transducer _____

Compro Model No. : _____ EBP.12.005.U.BF _____

Customer's Model No. : _____

ISSUE	CHECK	APPROVAL	CUSTOMER
E. Mpouras 18.01.2012			

Compro[®]
ELECTRONIC GMBH

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1. ELECTRICAL AND ACOUSTICAL SPECIFICATION

	Item	Unit	Specifications
1-1	Rated Voltage (Square Wave)	V	5.0
1-2	Operating Voltage	V	3-8
1-3	* Rated Current (Max)	mA	40
1-4	* Min Sound Output at 10cm	dB	85
1-5	* Resonant Frequency	Hz	2400
1-6	Coil Resistance	Ω	47 ± 5
1-7	Operating Temperature	$^{\circ}\text{C}$	-30~+70
1-8	Storage Temperature	$^{\circ}\text{C}$	-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 $+85^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 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 $-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ test box for 240 hours, then expose to the room temperature for 2 hours without applying power.
2-3 Storage in Humidity	Storage in $+40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 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.	<p>Make this test for 5 cycles without applying power, then expose to the room temperature for 2 hours.</p>
2-5 Vibration test	<p>Amplitude: 1.5mm Time : 1min/axis</p> <p>Make this test for the directions of X,Y, Z for 2 hours each (total 6 hours).</p>
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.: $260 \pm 5^{\circ}\text{C}$ Heat applying time: $3 \pm 0.5\text{sec}$.

PASS CRITERION :

After these tests , the change of S.P.L shall be within $\pm 5 \text{ dB}$.

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3. MEASURING METHOD (BUZZER MODE)

3-1 .Test Condition

3-1-1.STANDARD

Temperature : $25 \pm 3^{\circ}\text{C}$

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

3-1-2.JUDGEMENT

Temperature : $15 \sim 35^{\circ}\text{C}$

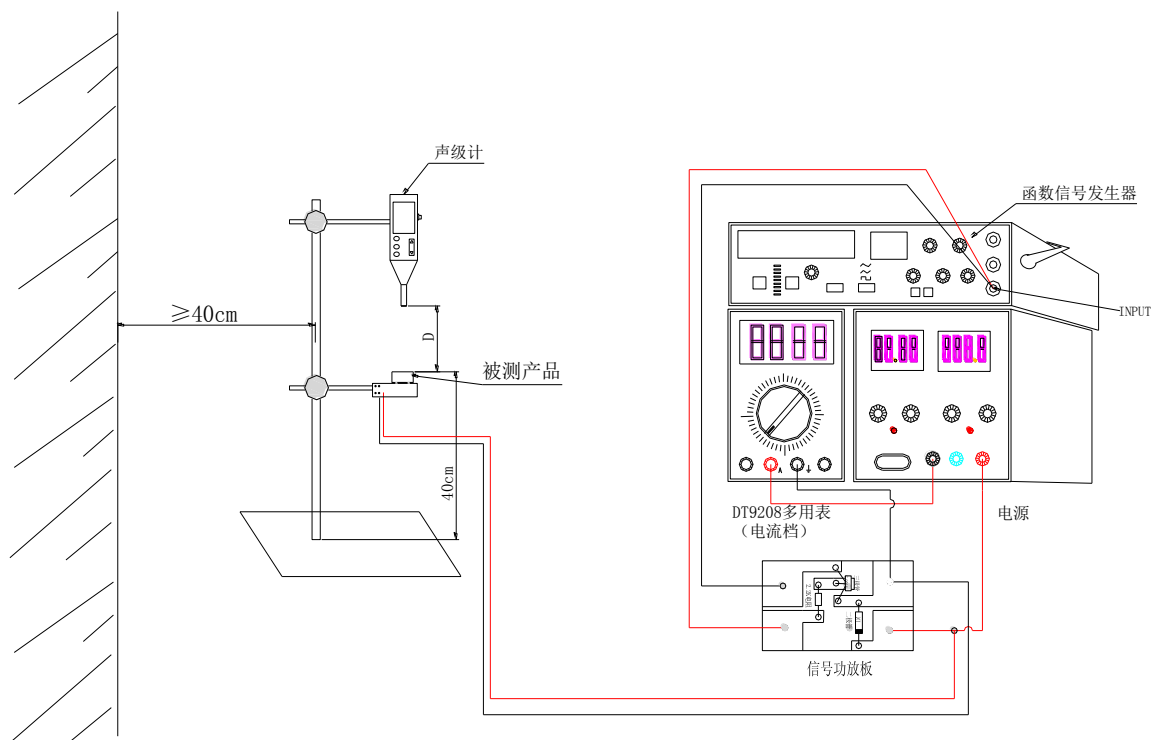
Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

4. Standard Test Fixture

1.rated Voltage(Square wave):5V

2.Resonant Frequency:2400Hz



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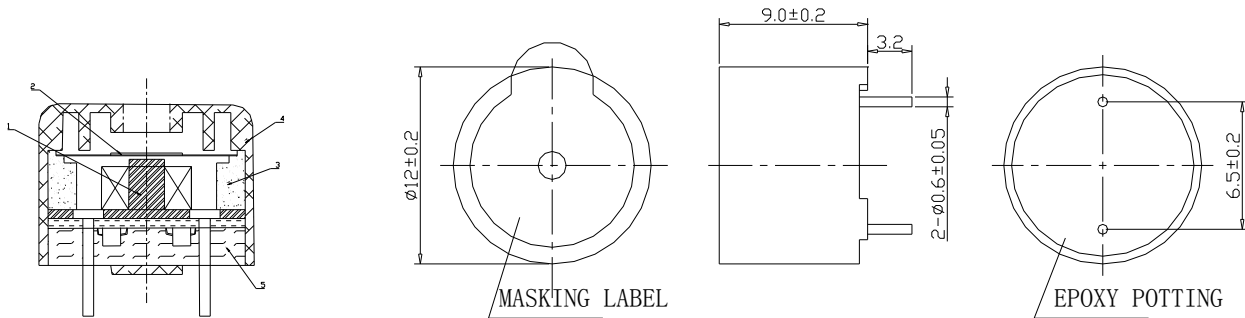
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5. DIMENSIONS

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



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

- 1) All parts must be meet to ROHS.
- 2) Wave solder and wash allowed.

5	Potting		Exopy	
4	Housing	1	NORYL	
3	Magent	1	Ferrite	
2	Diaphragm	1	Iron	
1	Coil Part	1	Copper And Iron	
Part No.	Part Name	Q'TY	Material	Remark

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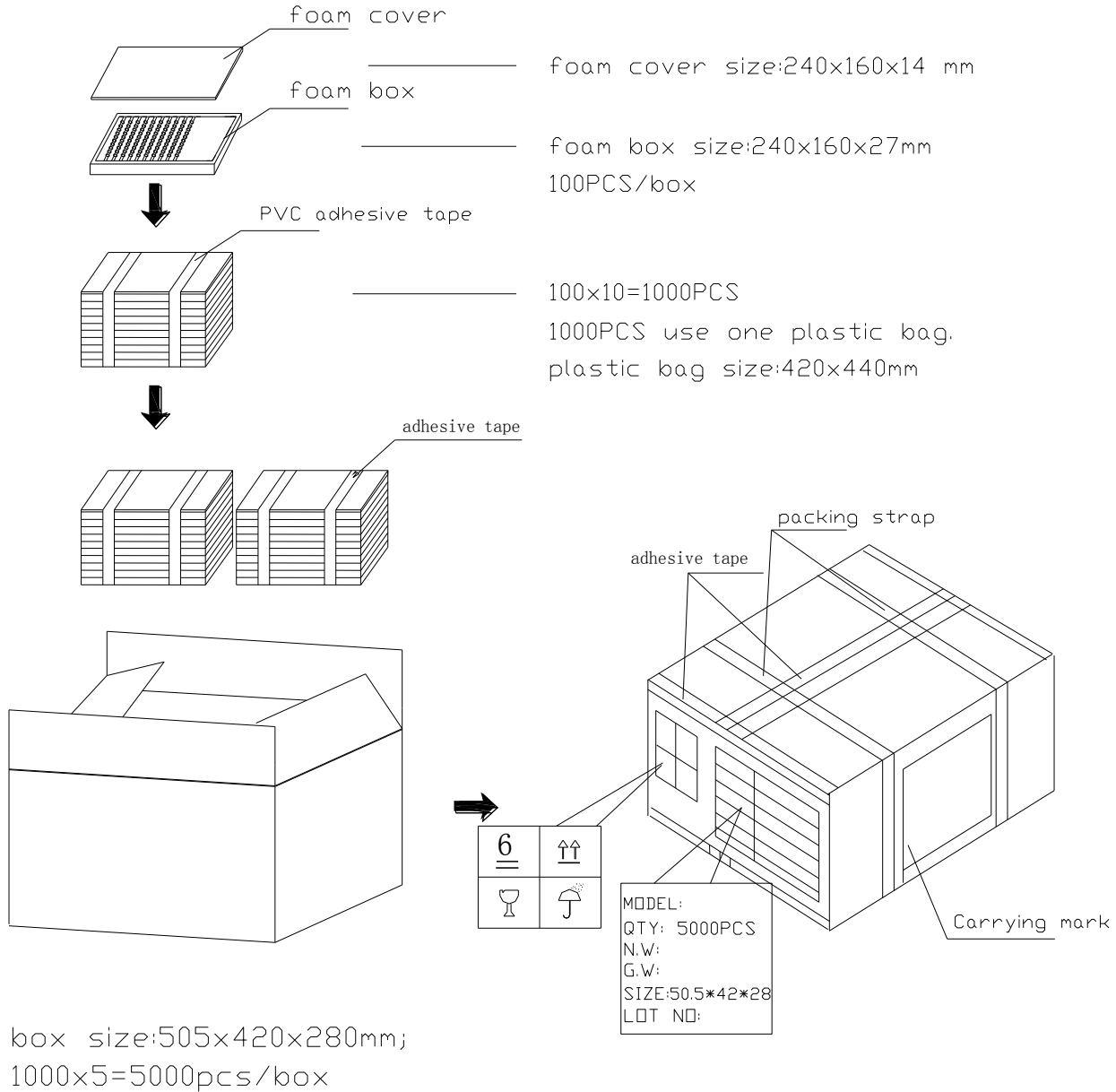
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6. PACKING



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