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Model No. : KPT-G1410A1	Revision No.	1.0
	Drawing No.	KP3.840.203.13R

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1. Scope

This product specification is applied to the piezoelectric sounder in alarm systems. Please contact us when using this product for any other applications than described in the above.

2. General

2.1 Out-Diameter : Ø14 mm

2.2 Height : 7.5 mm

2.3 Weight : 1.5 g

2.4 Operating Temperature range:
-20÷ +80°C without loss of function

2.5 Store Temperature range:
-30÷ +100°C without loss of function

3. Electrical and Acoustic Characteristics.

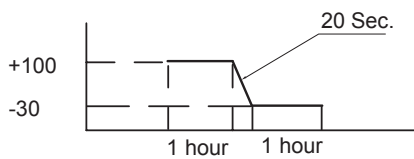
Test condition : 15 ÷ 35°C , 25% ÷ 85% RH, 860÷1060 mbar

	Items	Specification
1	Rated Voltage	12Vp-p Square Wave
2	Operating Voltage	3-30Vp-p Square Wave
3	Max.Rated Current	3mA at 4.0KHz/12Vp-p Square Wave
4	Resonant Frequency	4.0± 0.5KHz
5	Min.Sound Pressure Level	80dB at 4.0KHz/12Vp-p Square Wave/10cm
6	Capacitance at 100Hz	10000pF ± 30%
7	Case Material/Color	PBT/BLACK

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4. Reliability Test

After test(1~7item), the transducer S.P.L . difference shall be within $\pm 10\text{dB}$, and the appearance not exist any change to be harmful to normal operation (e.g. cracks,rusts,damages and especially distortion).

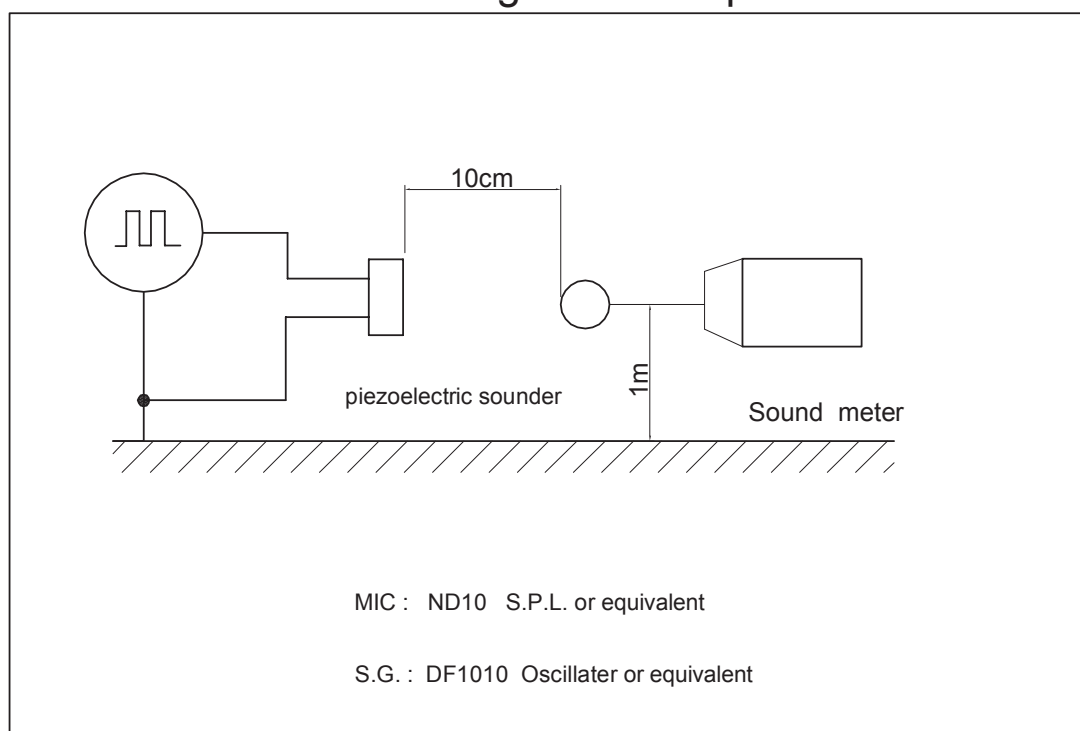
	Item	Specification
1	High Temperature Test	After being worked in a chamber with $+100\pm 2^{\circ}\text{C}$ for 2h and then being placed in natural condition for 2h, sounder shall be measured.
2	Low Temperature Test	First being worked in a chamber with $-30\pm 2^{\circ}\text{C}$ for 2h and then being placed in a chamber with $-30\pm 2^{\circ}\text{C}$ for 16h, finally being placed in natural condition for 2h, sounder shall be measured.
3	Humidity Test	After being placed in a chamber with 90 to 95%R.H. at $+40\pm 2^{\circ}\text{C}$ for 2 h and then being placed in natural condition for 2h , sounder shall be measured.
4	Thermal Shock Test	After being worked in a chamber at $+100^{\circ}\text{C}$ for 1 hour, then sounder shall be placed in a chamber at -30°C for 1 hour(1 cycle is the below diagram). After 6 above cycles, sounder shall be measured after being placed in natural condition for 1 hour. 

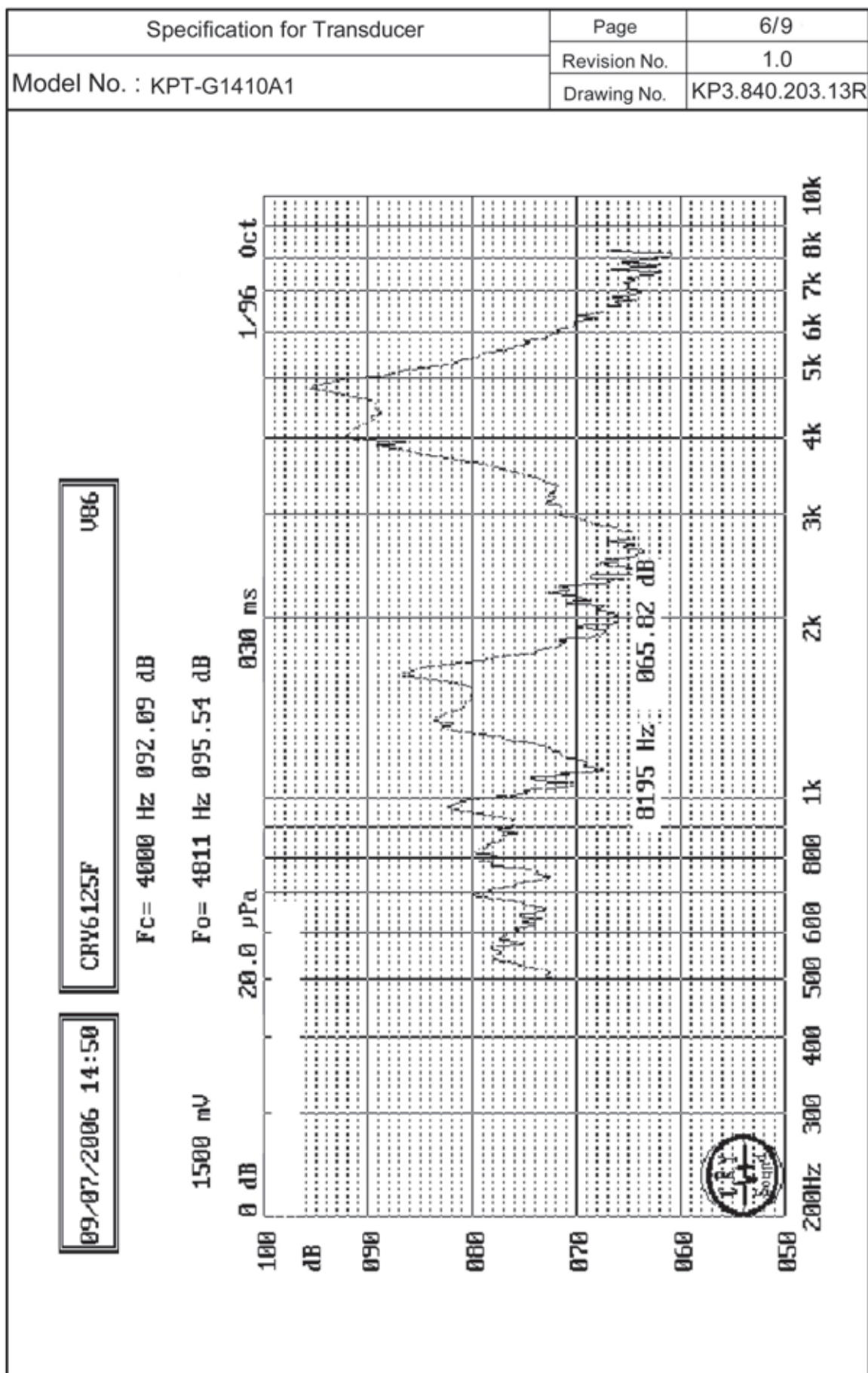
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4. Reliability Test

	Item	Specification
5	Vibration Resistance	Sounder shall be measured after being applied vibration of amplitude of 1.5mm with 10 to 30Hz band of vibration frequency to each of 3 perpendicular directions for 2 hour.
6	Drop Test	Sounder packed in the carton are dropped in six direction from the height of 80cm to the concrete floor.
7	Solderability	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of $+260 \pm 5^{\circ} \text{C}$ for 3 ± 0.5 seconds.
8	Terminal Strength Pulling	The force 10 seconds of 9.8N is applied to each terminal in axial direction.

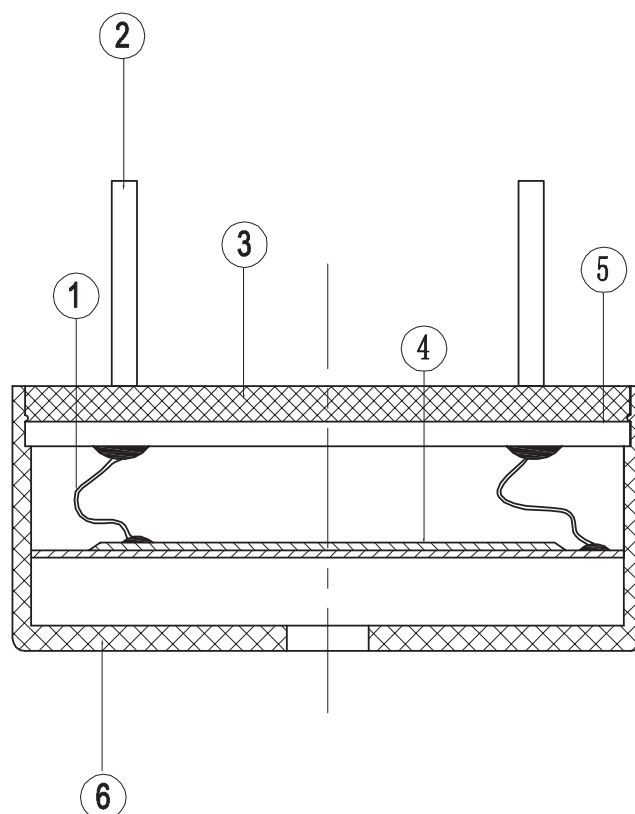
5. Measurement Block Diagram & Response curve





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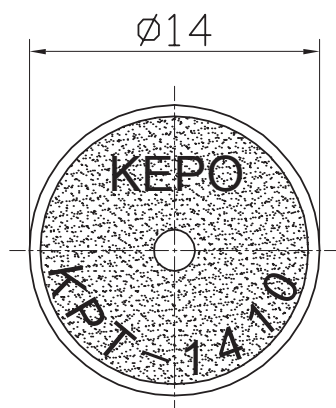
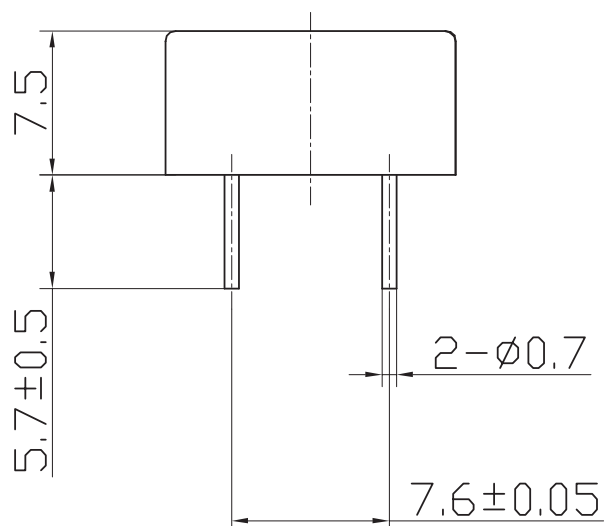
6. Structure



6	Case	1	PBT	
5	PCB	1		
4	Element	1	pbo-TiO ₂ ZrO ₂	
3	epoxy Resin	1		
2	Pin	2	Gu	
1	Wire	2		
No.	Part Name	Q'TY	Material	Remark

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7. Dimensions



FIRST ANGLE PROJECTION

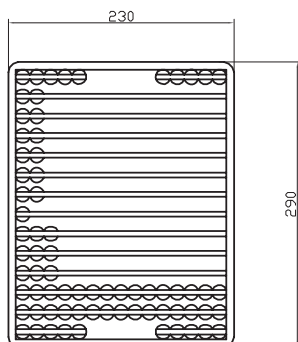


UNIT : mm

Tolerance : ± 0.5

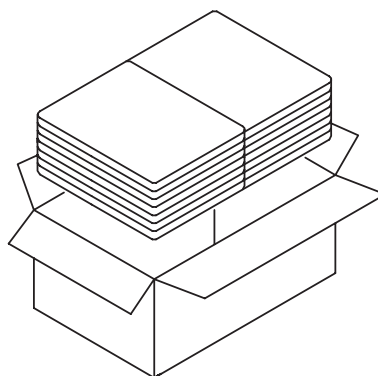
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8. Packing

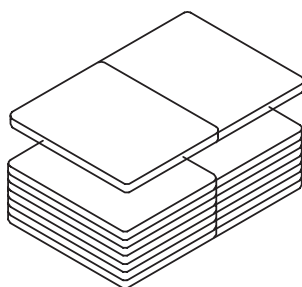


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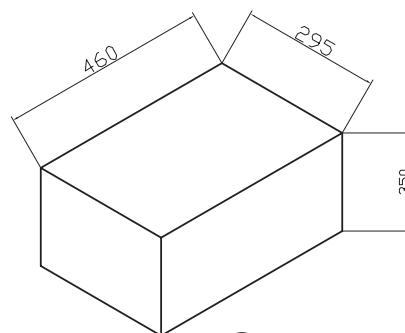
200Pcs



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②



④

QTY: 5000Pcs

460 x295 x350