



# HITPOINT

TEL:8862-26013311

FAX:8862-26013898

NO.4 Lane 505, Zhongzheng Rd., Linkou Shiang, Taipei, Taiwan 24445 . R.O.C

## Piezo Electric Sounder PT-2040PQ

(RoHS)

DATE:2010/8/27

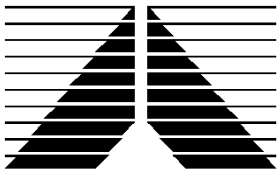
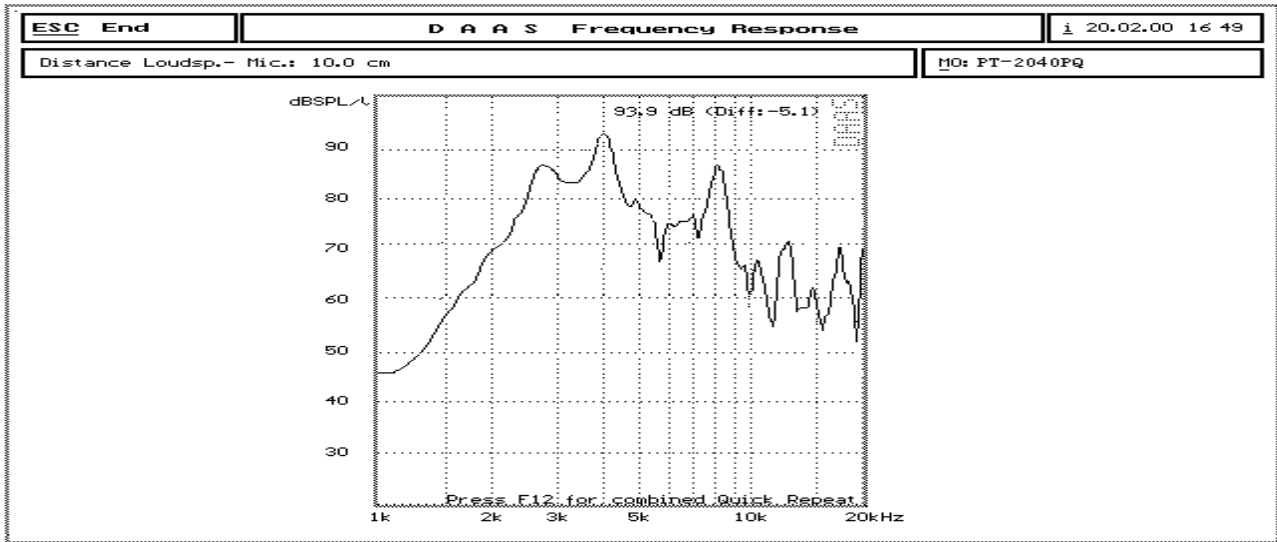
### 1. Electrical Characteristics

VER.:0

Resonant Frequency (KHz)	4.0 ±0.5
Operating Voltage (Vp-p/max)	30
Rated Voltage (Vp-p)	5
Current Consumption (mA/max)	1.5 at Rated Voltage
Sound Pressure Level (dB/min)	90 at 10cm at Rated Voltage
Capacitance (pF)	25,000 ± 30%at 120 Hz
Operating Temperature (°C)	-20 ~ +100
Storage Temperature (°C)	-30 ~ +110
Condition by wave (°C)	260±5°C / within 5sec
Condition by hand (°C)	350±20°C / within 5sec

PS : Vp-p = 1/2duty , square wave

### 2. Typical Frequency Response Curve



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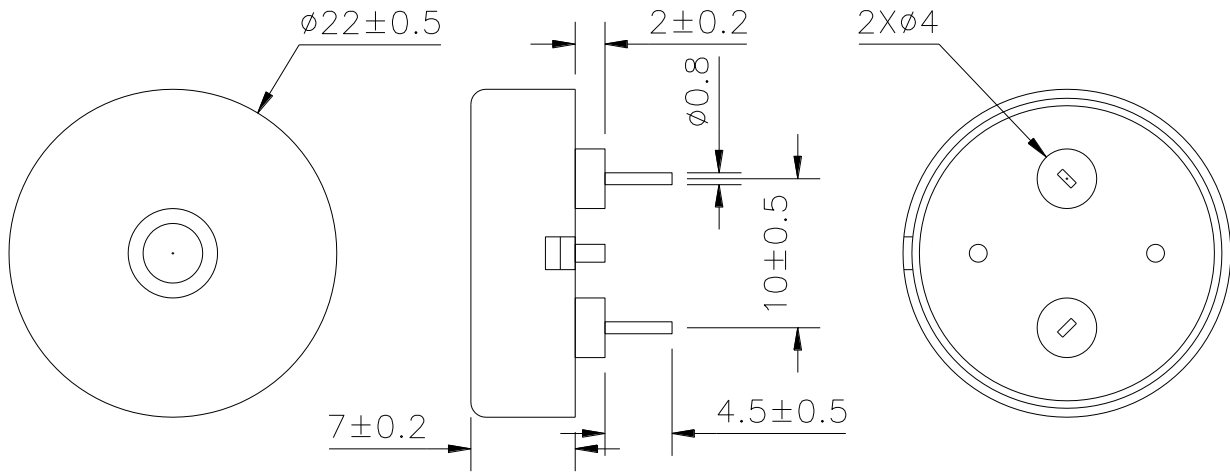
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### 3.Dimensions and Material

#### 3-1 Shape



Unit:mm

### 3-2 Material

Housing	PBT UL94HB plastic resin (Color : Black)
Leading Pin	Tin Plated Brass
Weight (Gram)	2.4



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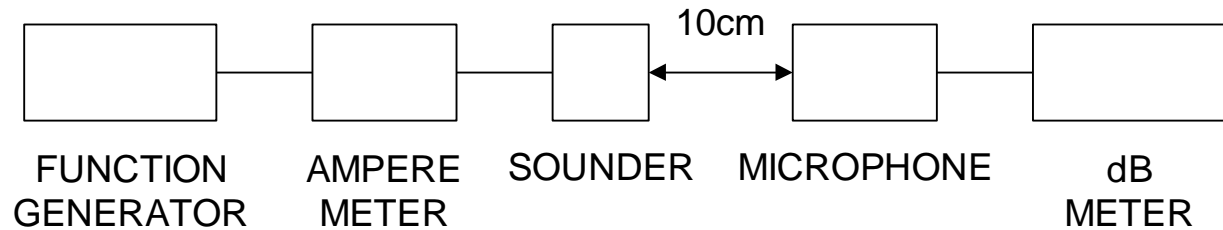
## 4. TESTING METHOD

. *Standard Measurement conditions*

Temperature:  $25 \pm 2^\circ\text{C}$  Humidity: 45-60%

### . Acoustic Characteristics

The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below.



### 5. RELIABILITY

ITEMS	METHOD OF TEST AND MEASUREMENTS	PERFORMANCE
Coldness withstanding	After 98 hours of being exposed to $-30^\circ\text{C}$ environment, should be returned to normal environment for 2 hours, then re-proceed to test.	No abnormality shall exist
Hotness withstanding	After 98 hours of being exposed to $+110^\circ\text{C}$ environment, should be returned to normal environment for 2 hours, then re-proceed to test.	No abnormality shall exist
Humidity withstanding	After 98 hours of being exposed to $40^\circ\text{C}$ 95%RH environment in actual operation, should be returned to normal environment for 2 hours, then re-proceed to test.	No abnormality shall exist
Durability	Testing after 1,000 hours actual continuous operation. (at standard measurement conditions)	No abnormality shall exist
Drop withstanding	A natural drop from 75cm high down to the ground.	No abnormality shall exist
Vibration withstanding	Vibration of 2,000 cycles per minute, 2mm amplitude, applied in X, Y and Z directions for 30 minutes each.	No abnormality shall exist



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## **6. PACKAGE METHOD**

*< 1 > 450pcs per box , Total 10 boxes per carton , total 4500pcs carton;*

Volume: L\*W\*H=520\*335\*290mm

*< 2 >N.W. : ; 12KGS ; G.W. : 13KGS ;*

*< 3 >RoHS Mark*