



# HITPOINT

TEL:8862-26013311

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

## Piezo Electric Sounder PT-1052MFDQ

(RoHS)

DATE:2014.12.31

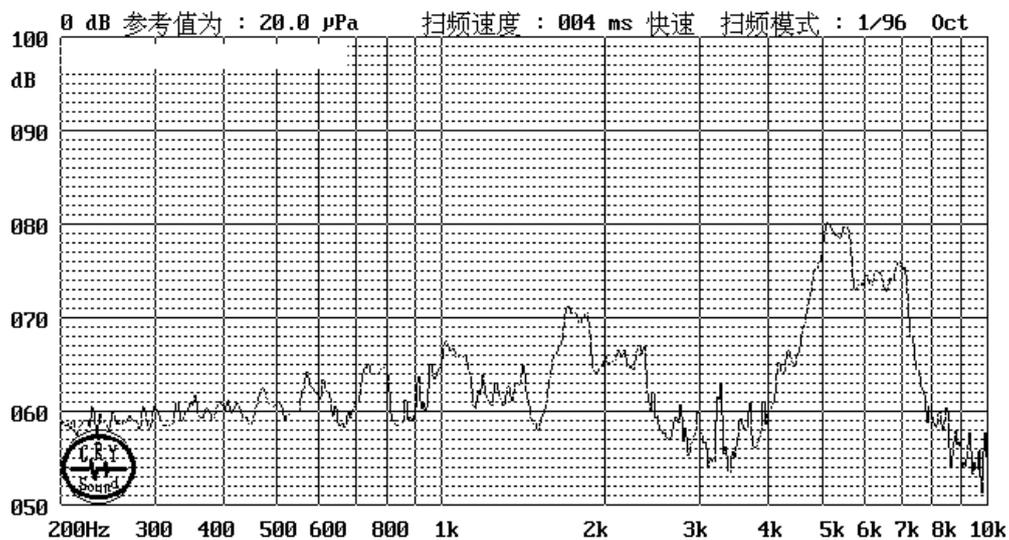
### 1.Electrical Characteristics

VER.:0

Resonant Frequency (KHz)	5.2
Operating Voltage (Vp-p)	1~25
Rated Voltage (Vp-p)	5
Current Consumption (mA/max)	3 at Rated Voltage
Sound Pressure Level (dB/min)	70 at 10cm at Rated Voltage
Capacitance (pF)	12,000 ± 30 % at 120 HZ
Operating Temperature (°C)	-20 ~ +70
Storage Temperature (°C)	-30 ~ +80
Condition by reflow soldering (°C)	260±5°C/ within5sec
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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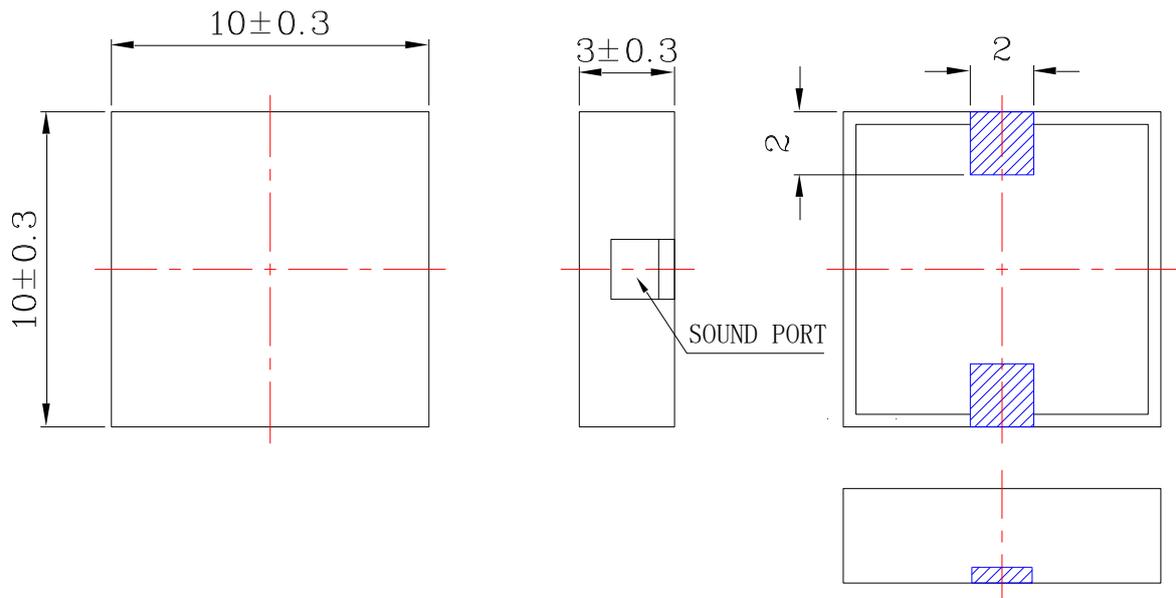
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## 3.Dimensions and Material

### 3-1 Shape



TOL:  $\pm 0.3$  Unit : mm

### 3-2 Material

Housing	LCP plastic resin (Color : Black)
Leading Pin	Tin Plated Brass
Weight (Gram)	0.3



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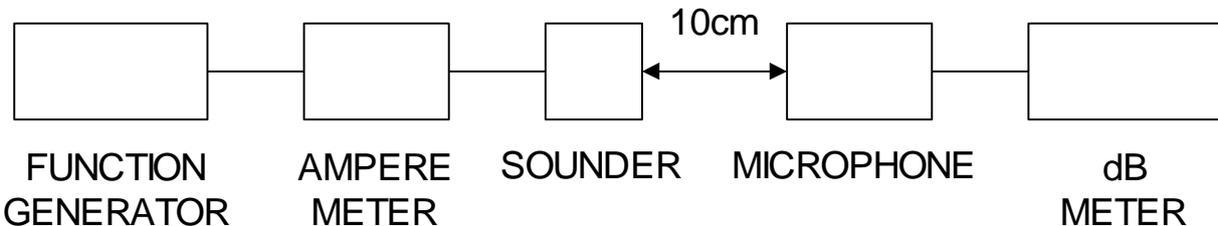
## 4. TESTING METHOD

### · **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

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



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## 6. PACKAGE METHOD

< 1 > 1000pcs per tape reel; 10ape reel per carton , total 10000pcs carton;

Volume: L\*W\*H=360\*360\*360mm

< 2 > N.W. ; 3KGS; G . W . ; 7KGS;

< 3 > RoHS Mark

