



HITPOINT

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

Piezo Electric Sounder

PT-1640ML-03Q

(RoHS)

DATE:2013.9.16

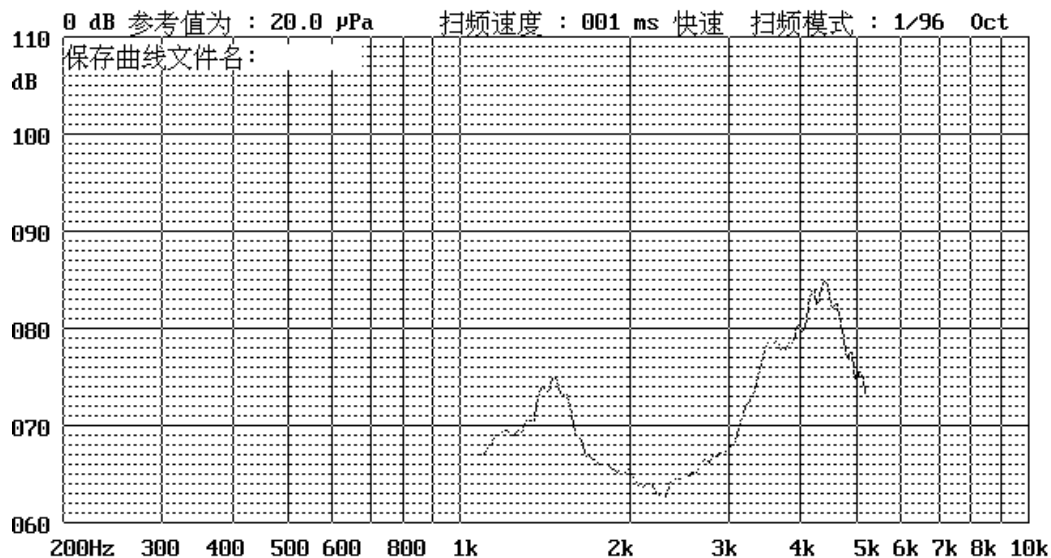
1 Electrical Characteristics

VER 0

Resonant Frequency (KHz)	4.0 ±0.5
Operating Voltage (Vp-p/max)	1-25
Rated Voltage (Vp-p)	3
Current Consumption (mA/max)	3 at Rated Voltage
Sound Pressure Level (dB/min)	75at 10cm at 4KHz
Capacitance (pF)	14,000 ± 30 at 1K Hz
Operating Temperature (°C)	-30 ~ +100
Storage Temperature (°C)	-40 ~ +110
Condition by reflow soldering (°C)	250±5 ~ / within 5sec
Condition by hand (°C)	350±20 ~ / within 5sec

PS Vp-p 1/2duty , square wave

2 Typical Frequency Response Curve



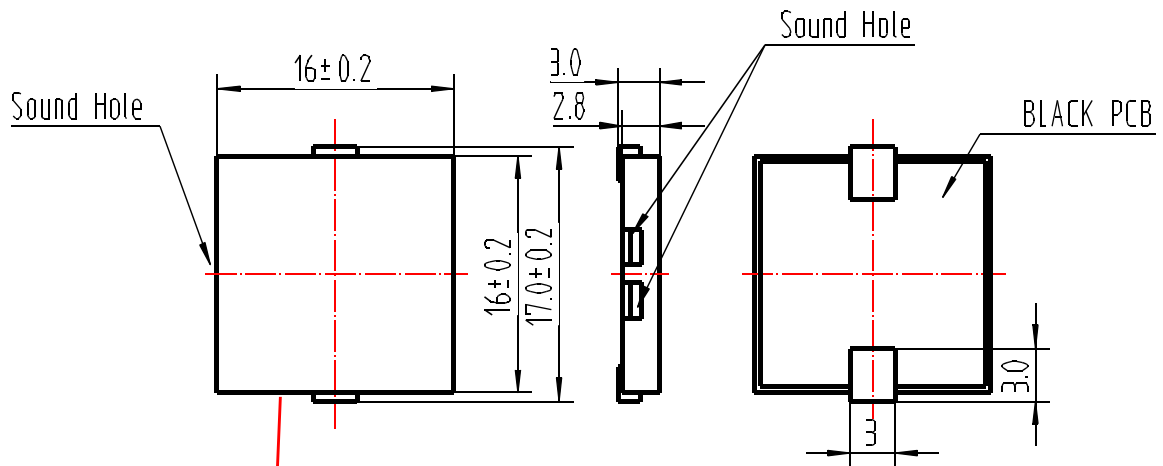


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3 Dimensions and Material

3-1 Shape



unit:mm

Tolerance: ± 0.5 mm

front side has no any mark.

3-2 Material

Housing	LCP plastic resin (Color : Black)
Weight (Gram)	1



TEL: 8862 26012211

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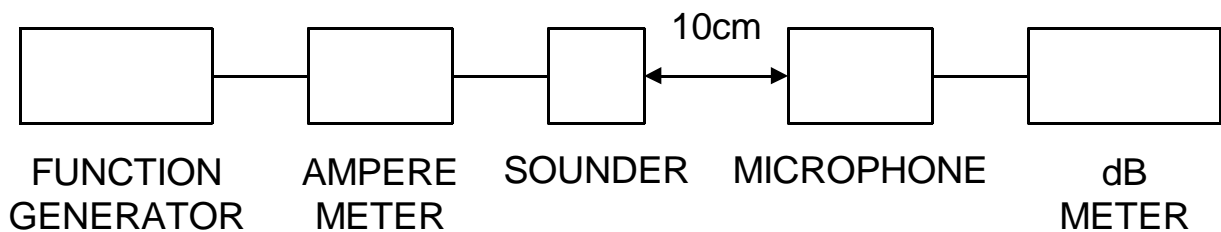
4. TESTING METHOD

• **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
<i>Coldness withstanding</i>	<i>After 98 hours of being exposed to -30°C 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 $+110^{\circ}\text{C}$ 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 40°C 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 > 800pcs per tape reel; 8ape reel per carton , total 6400pcs carton;

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

< 2 > N W 8KGS G W 9KGS

< 3 > RoHS Mark

