



# HITPOINT

TEL:8862-26013311

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

## PT-3110WQ

(RoHS)

DATE:2005.05.26

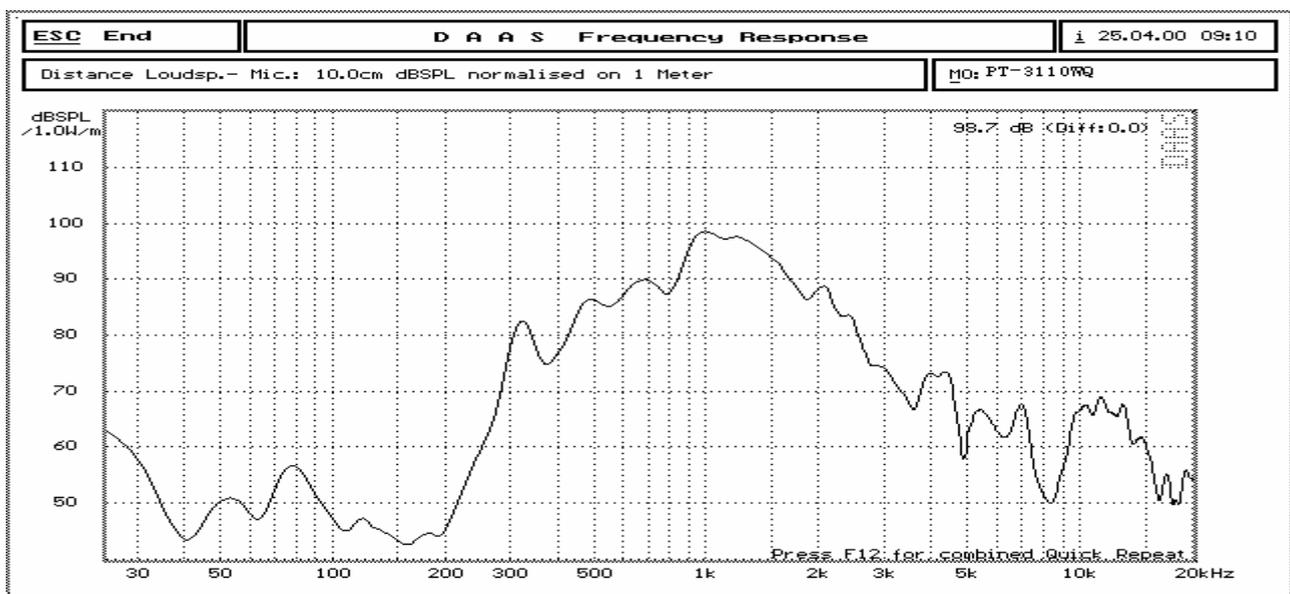
### 1 . Electrical Characteristics

VER :.0

Resonant Frequency (KHz)	1.1 ± 0.5
Operating Voltage (Vp-p/max)	30
Rated Voltage (Vp-p)	5.0
Current Consumption (mA/max)	2.0 at Rated Voltage
Sound Pressure Level (dB/min)	85 at 10cm at Rated Voltage
Capacitance (pF)	48,000 ± 30% at 120 Hz
Operating Temperature (°C)	-20 ~ +90
Storage Temperature (°C)	-30 ~ +100
Manual soldering conditions	350±20°C / within 5sec

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

### 2 . Typical Frequency Response Curve





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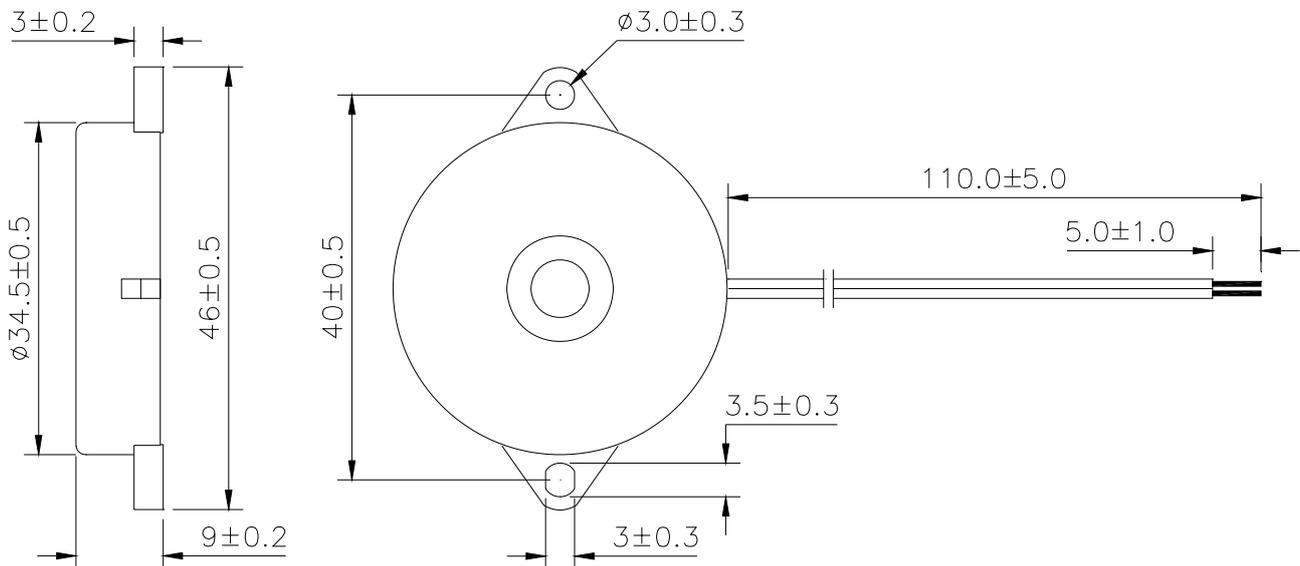
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## 3 . Dimensions and Material

### 3-1 Shape



Unit:mm

### 3-2 Material

Housing	ABS 777D UL94HB plastic resin (Color : Black)
Leading Wire	28AWG (Red+Black)
Weight (Gram)	5.8



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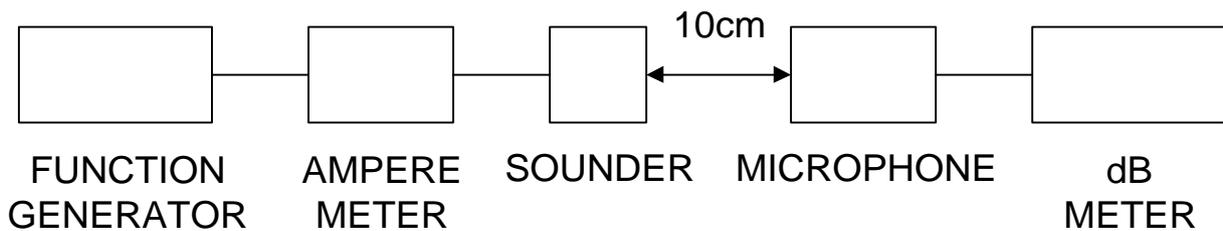
## 4. TESTING METHOD

### • *Standard Measurement conditions*

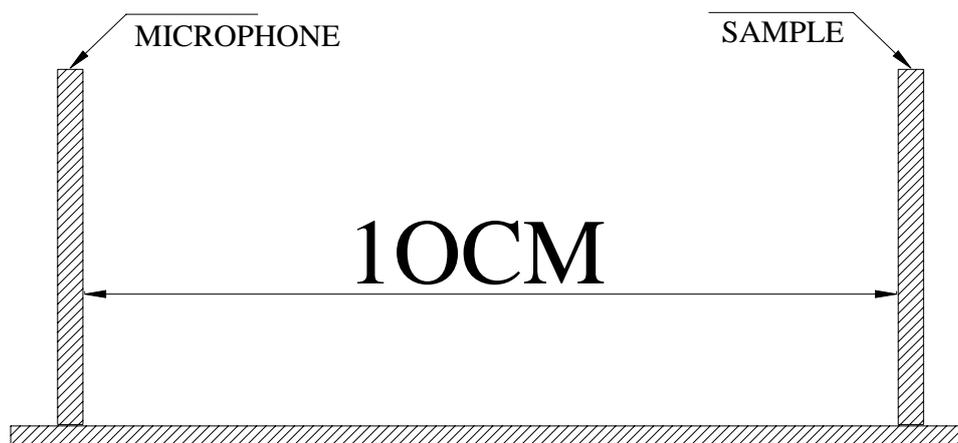
Temperature:  $25 \pm 2$  °C Humidity: 45-60%

### • *Acoustic Characteristics*

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



In the measuring test, buzzer is placed as follows:





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## 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 -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 +100°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 1,000 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>

## 6. PACKAGE METHOD

<1> 200pcs per box , Total 10 boxes per carton , total 2000pcs carton;

Volume: L\*W\*H=510\*330\*300mm

<2> RoHS Mark

