



# HITPOINT

TEL:8862-26013311

FAX:8862-26013898

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

## PT-2020P-PQ

(RoHS)

DATE:2006.07.01

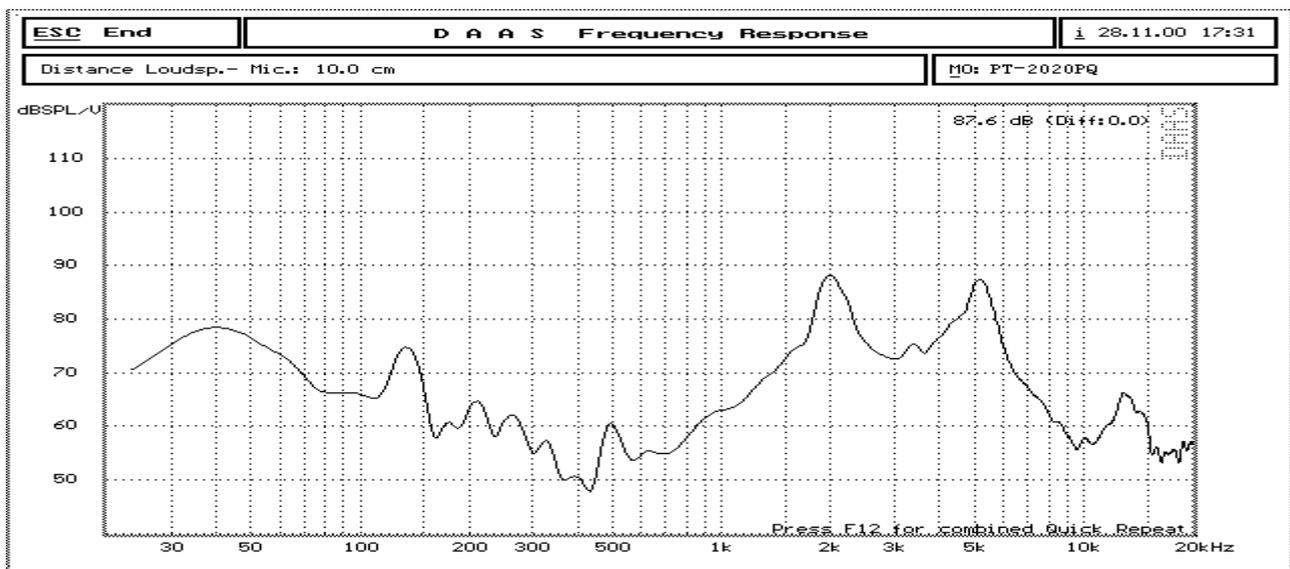
### 1 . Electrical Characteristics

VER :1

Resonant Frequency (KHz)	2.0 ±0.5
Operating Voltage (Vp-p/max)	30
Rated Voltage (Vp-p)	5.0
Current Consumption (mA/max)	1.5 at Rated Voltage
Sound Pressure Level (dB/min)	80 at 10cm at Rated Voltage
Capacitance (pF)	25,000 ± 30% at 120 Hz
Operating Temperature (°C)	-20 ~ +100
Storage Temperature (°C)	-30 ~ +110
Wave soldering conditions (°C)	245±5°C for 3±0.5 seconds.
Manual soldering conditions (°C)	350±20°C / within 5sec

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

### 2 . Typical Frequency Response Curve





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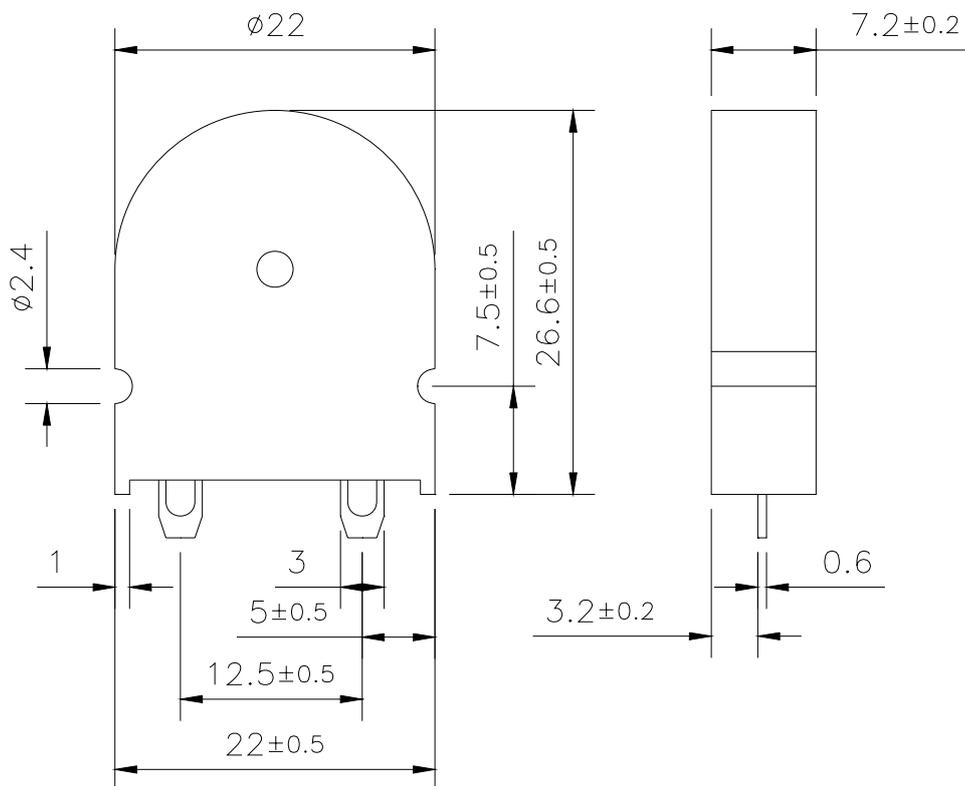
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### 3 . Dimensions and Material

#### 3-1 Shape



Unit:mm

#### 3-2 Material

Housing	PBT1200 UL94HB plastic resin (Color : Black)
Leading Pin	Tin Plated Brass
Weight (Gram)	2.4



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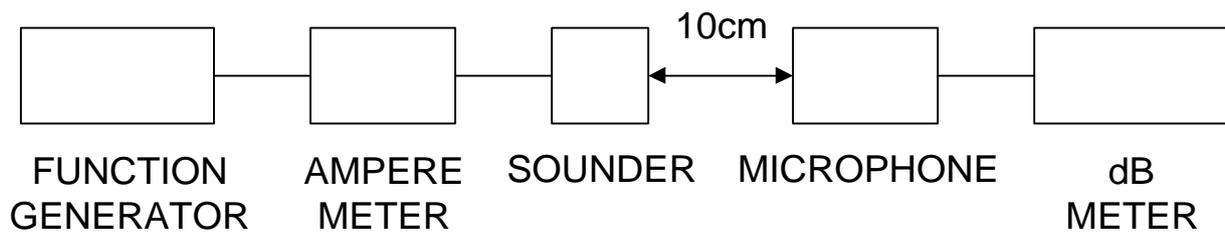
## 4. TESTING METHOD

### • *Standard Measurement conditions*

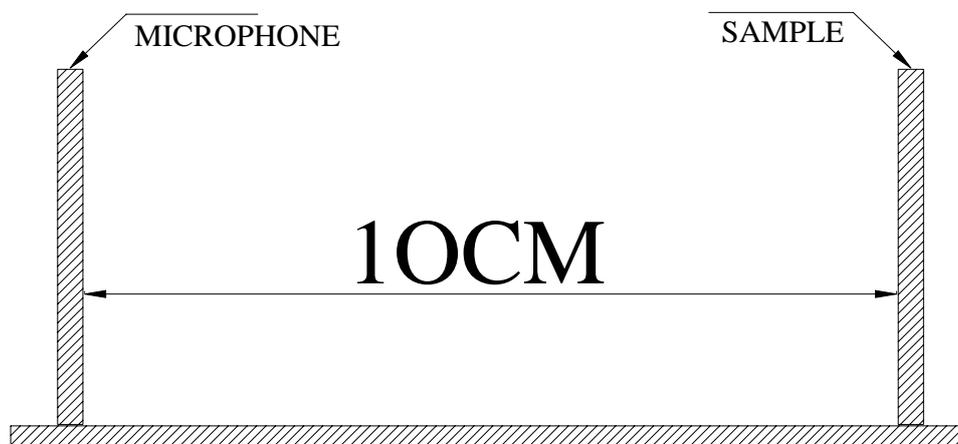
*Temperature:25±2°C Humidity:45-60%*

### • *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

ITEMS	METHOD OF TEST AND MEASUREMENTS	PERFORMANCE
Coldness withstanding	After 98 hours of being exposed to -30°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 +100°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°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

## 6. PACKAGE METHOD

<1> 400pcs per box , Total 10 boxes per carton , total 4000pcs carton;

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

<2> RoHS Mark

