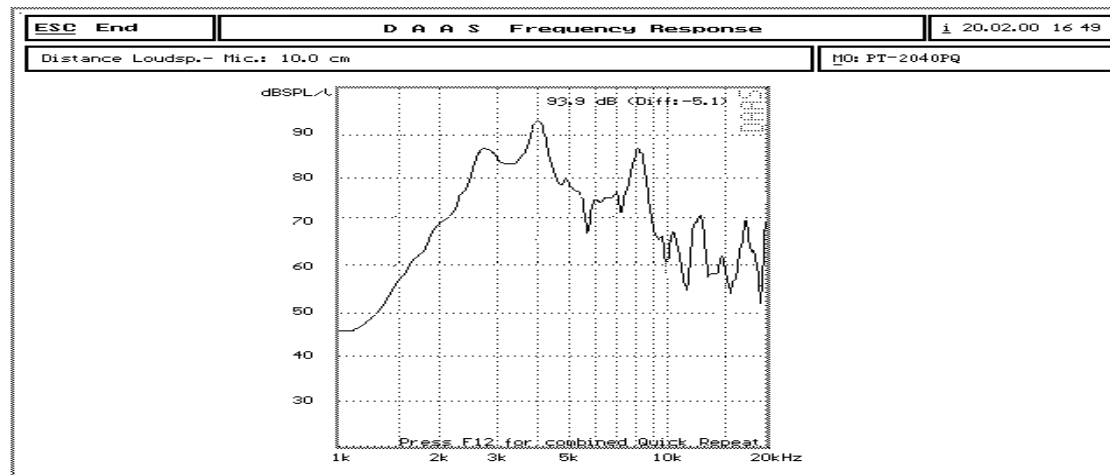


1 . Electrical Characteristics

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

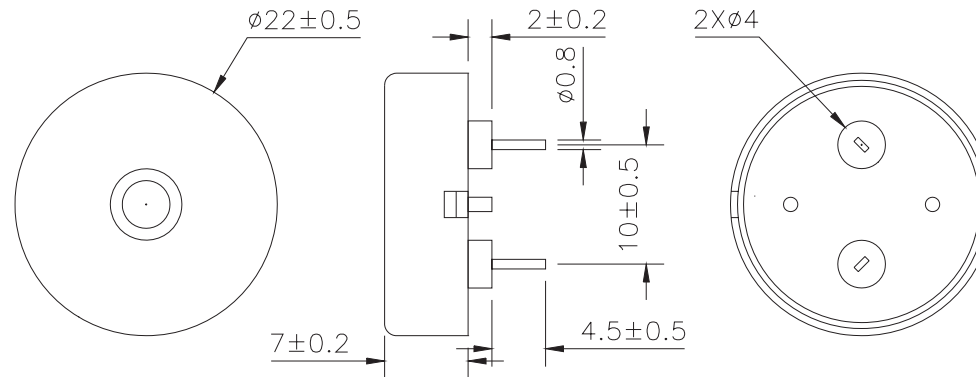
PS : Vp-p = 1/2 duty , square wave

2 . Typical Frequency Response Curve



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

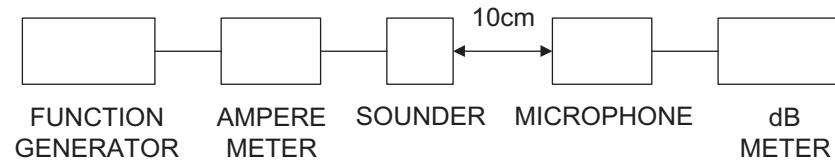
4. TESTING METHOD

• 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.



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 +110 °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> 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