

SHOGYO INTERNATIONAL CORPORATION

Tel: 516-921-9111 Fax: 516-921-3777

Email: INFO@SHOGYO.COM

Website: WWW.SHOGYO.COM

Part No. 1110(RoHS)

DATE:2006.06.20

1 . Electrical Characteristics

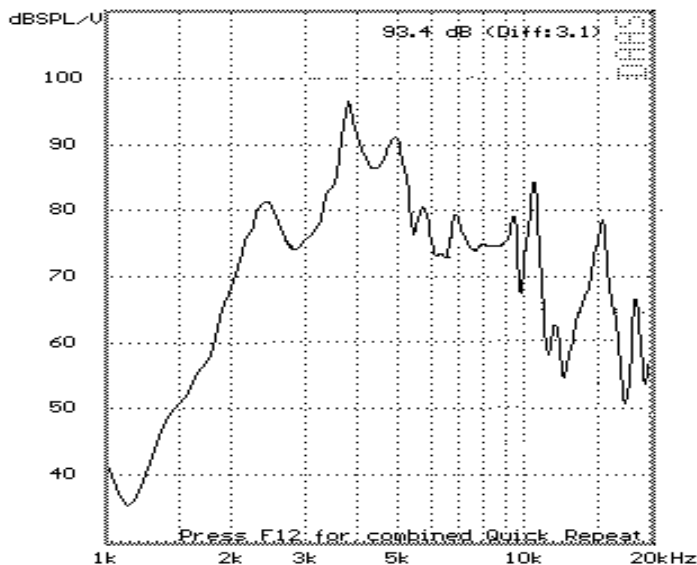
VER .:0

Resonant Frequency (KHz)	3.8 ±0.5
Operating Voltage (Vp-p/max)	30
Rated Voltage (Vp-p)	5.0
Current Consumption (mA/max)	5.0 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 ~ +70
Storage Temperature (°C)	-30 ~ +80

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

2 . Typical Frequency Response Curve

ESC End	D A A S Frequency Response	i 16.02.00 14 04
Distance Loudsp.- Mic.: 10.0 cm		M0:



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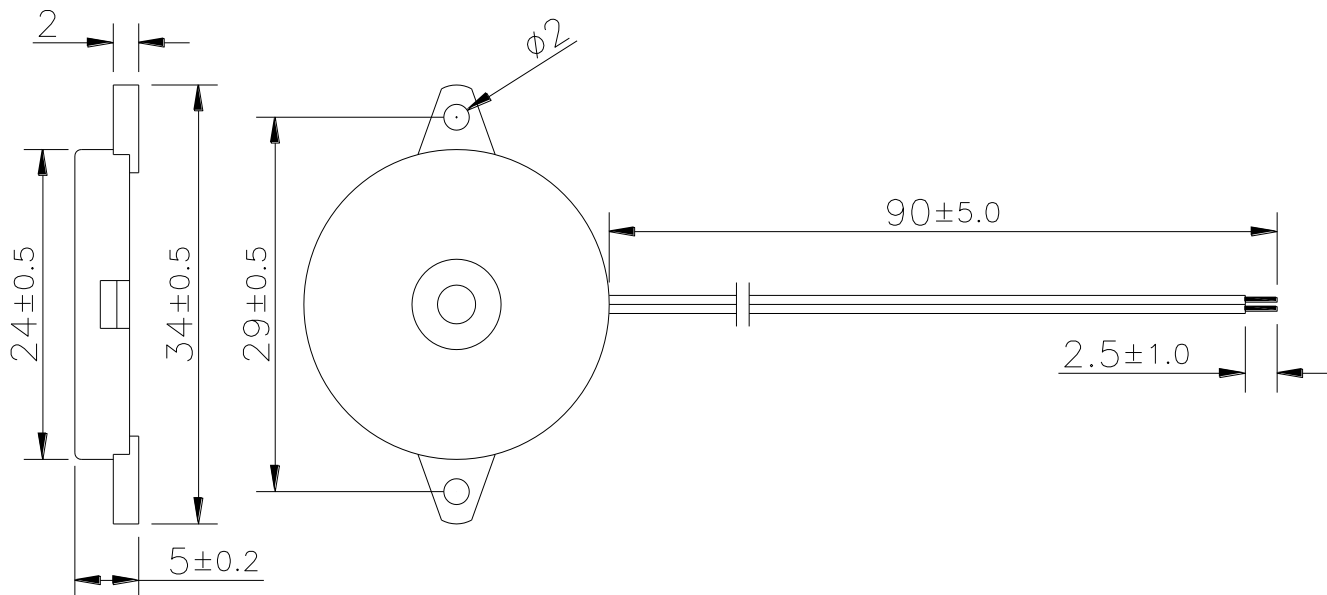
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3 . Dimensions and Material

3-1 Shape



Unit:mm

3-2 Material

Housing	ABS 707 UL94HB plastic resin (Color : Black)
Leading Wire	32AWG
Weight (Gram)	2

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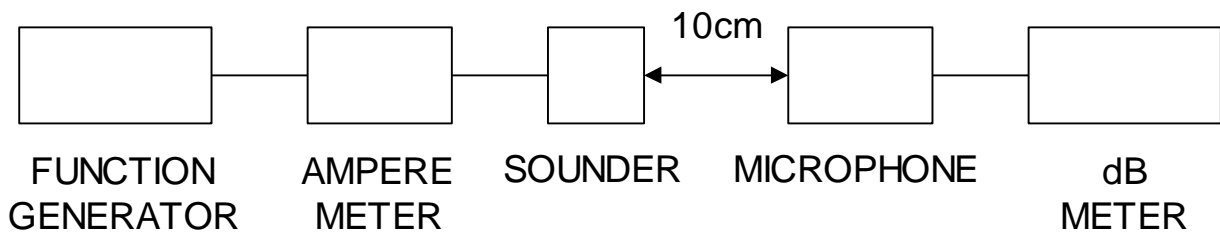
4. TESTING METHOD

• *Standard Measurement conditions*

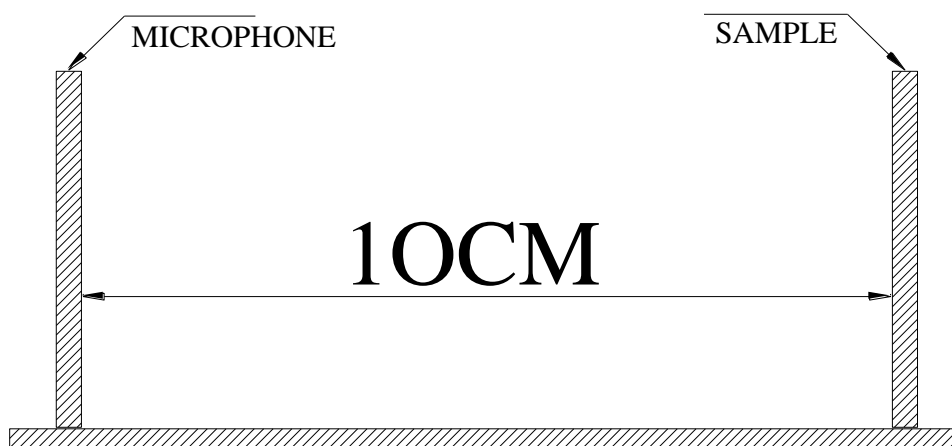
Temperature: $25 \pm 2^\circ\text{C}$ Humidity: 45-60%

• *Acoustic Characteristics*

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



In the measuring test, buzzer is placed as follows:



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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 +80 °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> One inner box consists of 500pcs.

<2> 10 inner boxes are packed in a carton box. (L*W*H=510*330*300mm)
(5000pcs of 1110 are packed in a carton box.)