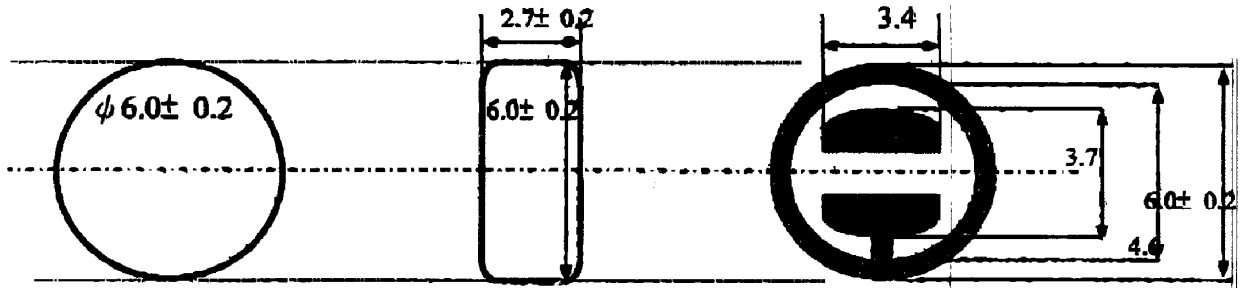


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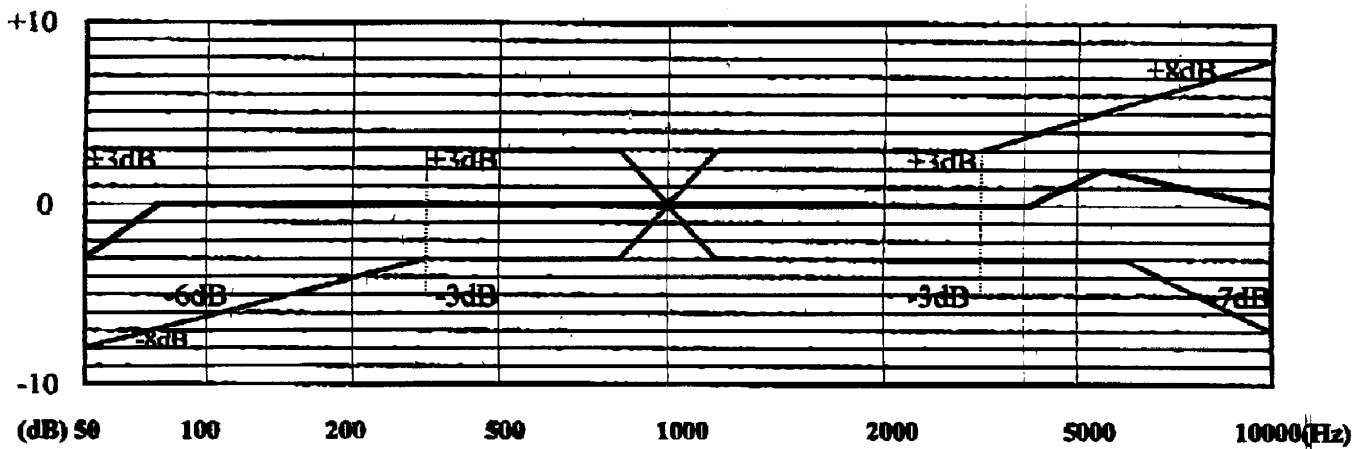
外觀尺寸圖

I. 電氣的特性

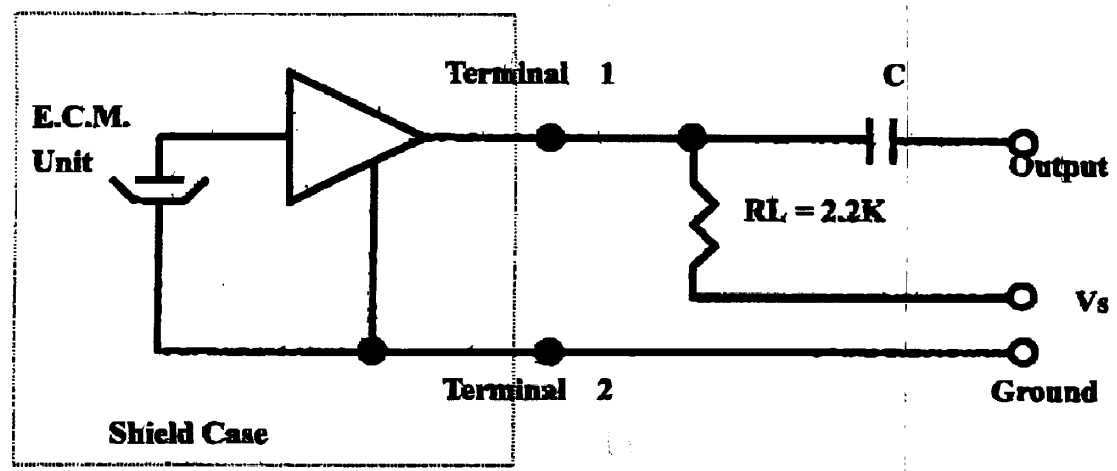
Electrical Specifications

測試條件 Test Condition  $V_s=2.0V$   $R_L=1.2K\Omega$   $T_b=20^\circ C$   $R_h=65\%$

項目 Item	代號 Symbol	試驗條件 Test Condition	最小值 Minimum	標準值 Standard	最大值 Maximum	單位 Unit
靈敏度 Sensitivity	S	$f=1KHZ$ $P_{in}=1 \mu bar$	-61	-58	-55	dB 0dB=1v/ $\mu bar$
輸出阻抗 Output Impedance	$R_o$	$f=1KHZ, P_{in}=1 \mu bar$			2.2	K $\Omega$
指向特性 Directivity	○					(無)指向性 Omnidirectional
消耗電流 Current Consumption	I				400	$\mu A$
S/N比 S/N Ratio	S/N(A)	$f=1KHZ, P_{in}=1 \mu bar, -A Curve$	55			dB
最大入力音壓 Max input sound level					115	dB SPL
低電壓特性 Decreasing Voltage Characteristic	$\Delta S$	$f=1KHZ, P_{in}=1 \mu bar$ $V_s=2.0V \rightarrow 1.1V$			-3	dB



典型頻率響應 (Typical Frequency Response)



測試電路 (Measurement Circuit)

## II. 機械的特性

### Mechanical Specification

外形尺寸 Dimension	φ 6.0*2.7 (mm)
重量 Weight	≤ 0.18g Less than 0.18g
熱焊沖擊 Soldering Heat Shock	在溫度 260°C ± 5°C 下，歷時 3 ± 1 秒的熱焊沖擊後對工作影響不得異常。 To be no interference in operation after soldering heat shock, temperature 260°C ± 5°C for 3 ± 1 seconds.
端子部強度 Terminal Mechanical Strength	施加力量 1Kg，一分鐘內不得有異常。 To be no interference in operation after pulled the terminal with 1Kg strength for 1 minute.

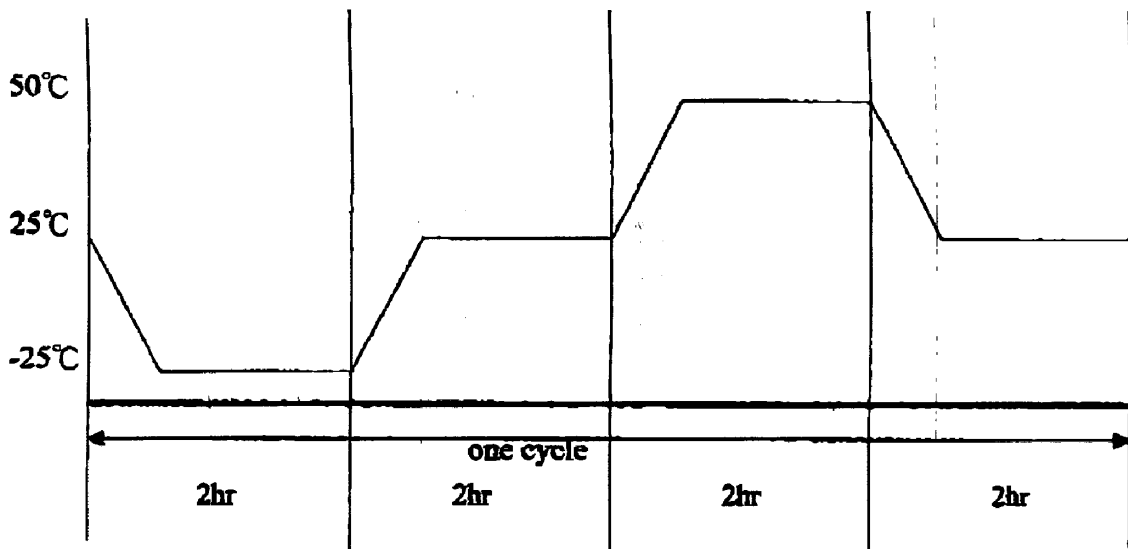
工作限制 Absolute Maximum Ratings	最大動作電壓 Operating voltage	動作溫度 Operate voltage	保存溫度 Storage temperature Range
	Vs(V)	Topr(°C)	Tstg(°C)
	10	-10 ~ +50	-20 ~ +65

### III. 環境試驗

#### Reliability Test

碰撞試驗 Collision Test	<p>在包裝的狀態下，按水平、垂直方向各半數安裝固定於碰撞台，然後以加速度 <math>100 \pm 10m/s</math> 的速度相撞共 <math>1000 \pm 10</math> 次，試驗前後靈敏度變化不大於 <math>\pm 3dB</math>。</p> <p>After collided with the acceleration <math>100 \pm 10m/s</math>, at the vertical &amp; horizontal directions for <math>1000 \pm 10</math> times at the state of packing Change of sensitivity within <math>\pm 3dB</math> from initial.</p>
振動試驗 Vibration Test	<p>在三個軸上，以 10Hz 至 55Hz 頻率範圍每次振動三分鐘，全振幅為 2mm，各振 30 分鐘，試驗前後靈敏度變化不大於 <math>\pm 3dB</math>。</p> <p>Vibration with 10Hz to 55Hz for 3 minutes each, full amplitude 2 mm, for 30 minutes at each of three axes. Change of sensitivity within <math>\pm 3dB</math> from initial.</p>
跌落試驗 Drop Test	<p>在帶包裝的狀態下，以 1m 高度自由跌落在堅固地板上，以五種不同箱面各試一次，試驗前後靈敏度不大於 <math>\pm 3dB</math>。</p> <p>After dropped from 1m height to concrete floor, each one time for 5 surfaces at the state of packing. Change of sensitivity within <math>\pm 3dB</math> from initial.</p>
恆定濕度試驗 Humidity Test	<p>要求溫度 <math>50^\circ C \pm 2^\circ C</math>，相對濕度為 90%~95% 持續時間 240 小時，試驗前後靈敏度變化不大於 <math>\pm 3dB</math> (在 <math>25^\circ C \pm 2^\circ C</math> 條件下放置 3 小時後測)。</p> <p>After exposure at <math>50^\circ C \pm 2^\circ C</math> and 90%~95% relative humidity for 240 hours, sensitivity to be within <math>\pm 3dB</math> from initial sensitivity. (The measurement to be done after 3 hours of conditioning at <math>25^\circ C \pm 2^\circ C</math>)</p>
溫度試驗 (高溫) Temperature Test (High temp)	<p>要求溫度 <math>50^\circ C \pm 2^\circ C</math>，持續時間 240 小時，試驗前後靈敏度變化不大於 <math>\pm 3dB</math> (在 <math>25^\circ C \pm 2^\circ C</math> 條件下放置 3 小時後測試)。</p> <p>After exposure at <math>50^\circ C \pm 2^\circ C</math> for 240 hours, sensitivity to be within <math>\pm 3dB</math> from initial sensitivity. (The measurement to be done after 3 hours of conditioning at <math>25^\circ C \pm 2^\circ C</math>).</p>
溫度試驗 (低溫) Temperature Test (Low temp)	<p>要求溫度 <math>-25^\circ C \pm 2^\circ C</math>，持續時間 240 小時，試驗前後靈敏度變化不大於 <math>\pm 3dB</math> (在 <math>25^\circ C \pm 2^\circ C</math> 條件下放置 3 小時後測試)。</p> <p>After exposure at <math>-25^\circ C \pm 2^\circ C</math> for 240 hours, sensitivity to be within <math>\pm 3dB</math> from initial sensitivity. (The measurement to be done after 3 hours of conditioning at <math>25^\circ C \pm 2^\circ C</math>).</p>
溫度循環試驗	<p>要求溫度 <math>-25^\circ C \pm 2^\circ C</math> 下放置 2 小時，<math>25^\circ C \pm 2^\circ C</math> 下放置 2 小時，<math>60^\circ C \pm 2</math></p>

Temperature Cycle Test	<p>°C 放置 2 小時，25°C ± 2°C 下放置 2 小時，以上溫度為一循環，經五個循環後，試驗前後靈敏度變化不大於 ± 3dB (在 25°C ± 2°C 條件下放置 3 小時後測試)。</p> <p>After exposure at -25°C ± 2°C for 2 hours, at 25°C ± 2°C for 2 hours, at 60°C ± 2°C for 2 hours, at 25°C ± 2°C for 2 hours, 5 cycles, sensitivity to be within ± 3dB from initial sensitivity. (The measurement to be done after 3 hours of conditioning at 25°C ± 2°C)</p>
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標準試驗狀態(溫度 25°C, 相對濕度 65%, 於自由音場狀態下)

Temperature Test (Temperature 25°C, Humidity 65%)

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