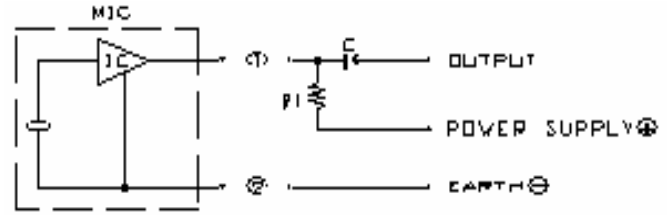
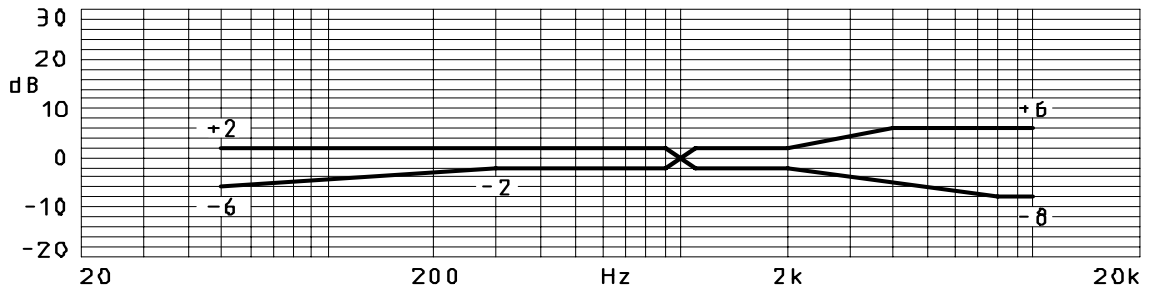


MWF-9748-622-OA

MICROPHONE

1	Operation Condition	
	1.1 Temperature	-20~+70 °C
	1.2 Rel. Humidity	35%~85% RH
	1.3 Pressure	86~106 KPa
	1.4 Environmental Noise	36 dB (Maximum)
	1.5 Operation Voltage	+1~+10VDC
	1.6 Earth	⊖
2	Electrical Characteristics	
	2.1 Standard Operation Voltage	+2.5 VDC
	2.2 Impedance	2.2 K Ω (Maximum)
	2.3 Current Consumption	0.6 mA(Maximum)
	2.4 Sensitivity	(0 dB=1V / 0.1 Pa, 1 KHz) -62dB \pm 2dB
	2.5 Directivity	Omni-directional
	2.6 S/N Ratio	40 dB (Minimum) (A-Curve at 1KHz, 0.1Pa)
	2.7 Test Temperature	20 °C \pm 2 °C
	Test Rel. Humidity	45%~65%RH
2.8 Schematic Diagram		
<div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p>Vs=2.5V</p> <p>RI=2.2kΩ</p> <p>C=1μ F</p> </div> <div>  </div> </div>		

2.9 Frequency Response

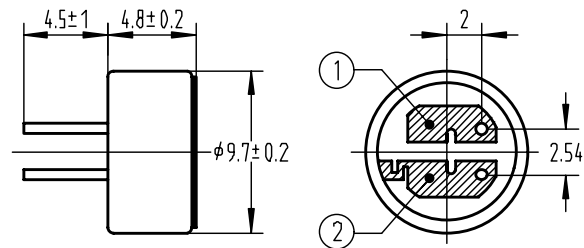


3 Mechanical Characteristics

3.1 Dimension $\phi 9.7 \times 4.8$

3.2 Weight $\leq 1.0g$

3.3 Dimensional Drawing



4 Reliability Tests

The sensitivity to be within ± 3 dB of initial sensitivity after 3 hours of conditioning at 20°C .

4.1 Vibration

Frequency 1	10Hz~55Hz
Amplitude	$\pm 0.15\text{mm}$
Frequency 2	55Hz~150Hz
Acceleration	20m/s^2
Change of Frequency	1octave/min
2 hrs in each of 3 axes	

4.2 Shocks

Pulse Shape	Half Sinusoidal
Pulse Duration	11ms
Acceleration	150m/s^2
Number of Jolts	10 in each of 3 axes

4.3 Dry Heat/Cold 70°C for 72 hrs -20°C for 72 hrs

4.4 Damp Heat 90% RH, $+40^\circ\text{C}$ for 120 hrs

4.5 Temperature Cycles $-20^\circ\text{C} \leftrightarrow 25^\circ\text{C} \leftrightarrow 70^\circ\text{C}$
 (2h) (1h) (2h) (1h) (2h) 10 cycles

5	<p>Cautions</p> <p>5.1 The soldering copper of a smaller type of less than 20W shall be applied.</p> <p>5.2 The temperature of the working surface of the soldering copper shall be below 270°C.</p> <p>5.3 E.C.M shall be soldered fixed on the metal block (heat sink) which has the higher radiation effects. Said heat sink shall contact with each of E.C.M.</p> <p>5.4 The soldering time for each terminal shall be 1~2 sec.</p> <p>5.5 The pin hole soldering shall be avoided.</p> <p>5.6 E.C.M may easily destroyed by the static electricity, and the countermeasure for eliminating the static electricity (the ground for soldering copper, for worktable and for human body) shall be executed.</p>
6	<p>Packing: Figure as follows.</p>

