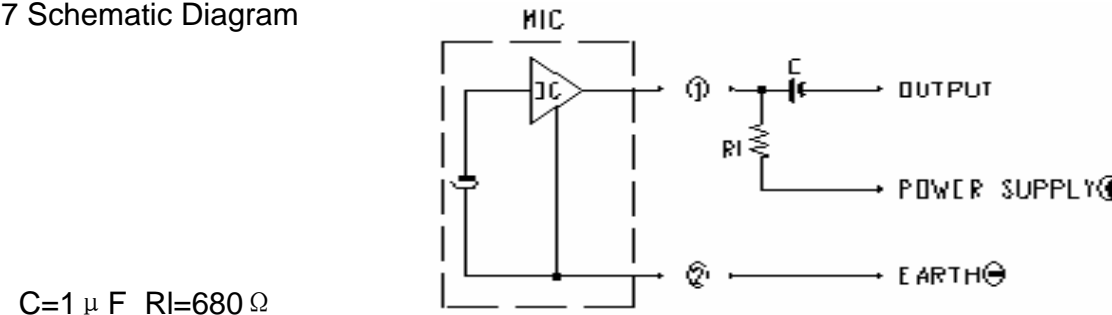
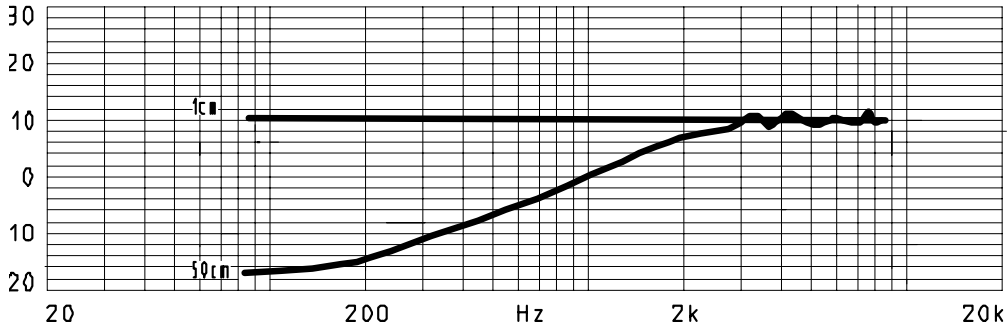
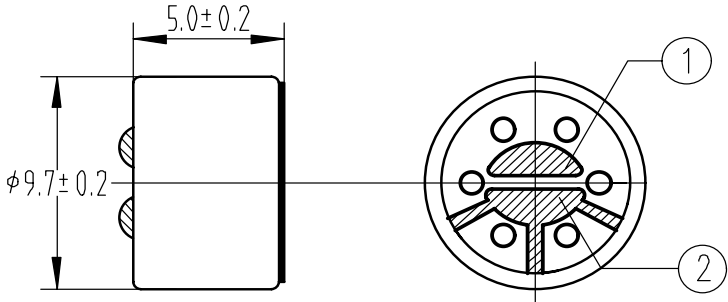


## SPECIFICATION FOR P/N MWF-9750-544-BX

1.	Scope	This specification applies electret condenser microphone(E.C.M)
2.	Model No.	MWF-9750-544-BX
3.	Operation Condition	
	3.1 Temperature	-20~+50℃
	3.2 Rel. Humidity	35%~85%RH
	3.3 Pressure	86~106kPa
	3.4 Environmental Noise	-----
	3.5 Operation Voltage	+1~+10VDC
	3.6 Earth	⊖
4.	Electrical Characteristics	
	4.1 Standard Operation Voltage	+1.5VDC
	4.2 Impedance	680 Ω (Maximum)
	4.3 Current Consumption	0.5mA(Maximum)
	4.4 Sensitivity	(0dB=1V/1Pa,1KHz) -54 ± 4dB
	4.5 Directivity	Bidirectional ( Noise Cancelling )
	4.6 S/N Ratio	40dB(Minimum)(A-Curve at 1KHz,0.1Pa)
	4.7 Maximum Input Sound Pressure Level	100dB S.P.L (at 1kHz) Distortion 1% (Maximum)
	4.7 Schematic Diagram	 <p style="margin-left: 20px;">C=1 μ F RI=680 Ω</p>

4.8 Test Temperature	20°C±2°C
Test Rel. Humidity	45%~65%RH
<p>4.9 Frequency Response</p> 	
5. Mechanical Characteristics	
5.1 Dimension	φ9.7×5.0
5.2 Mass	≤1.3g
<p>5.3 Dimensional Drawing</p> 	
6. Reliability Tests	
<p>The sensitivity to be within ±3dB of initial sensitivity after 3 hours of conditioning at 20°C.</p>	
6.1 Vibration	<p>Frequency 1 10Hz~55Hz          Amplitude ±0.15mm          Frequency 2 55Hz~150Hz          Acceleration 20m/s<sup>2</sup>          Change of Frequency 1octave/min          2 hrs in each of 3 axes</p>
6.2 Shocks	<p>Pulse Shape Half Sinusoidal          Pulse Duration 11ms          Acceleration 150m/s<sup>2</sup>          Number of Jolts 10 in each of 3 axes</p>

	6.3 Dry Heat/Cold	70°C for 72 hrs    -20°C for 72 hrs
	6.4 Damp Heat	90%RH,+40°C for 120 hrs
	6.5 Temperature Cycles	-20°C ←→ 25°C ←→ 70°C (2h) (1h) (2h) (1h) (2h) 10cycles
7.	Cautions	
	7.1 The soldering copper of a smaller type of less than 20W shall be applied.	
	7.2 The temperature of the working surface of the soldering copper shall be below 270°C.	
	7.3 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.	
	7.4 The soldering time for each terminal shall be 1~2 sec.	
	7.5 The pin hole soldering shall be avoided.	
	7.6 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.	

WRTN	APVD	DESCRIPTION