

NINGBO BEST GROUP CO.,LTD

SPECIFICATION

drawing no:2010061202

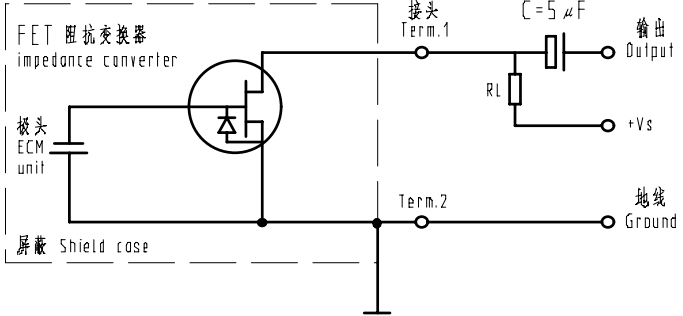
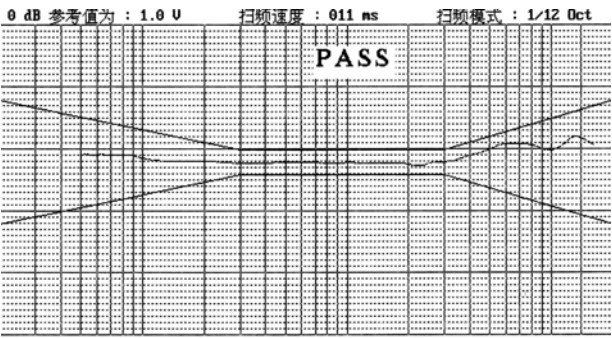
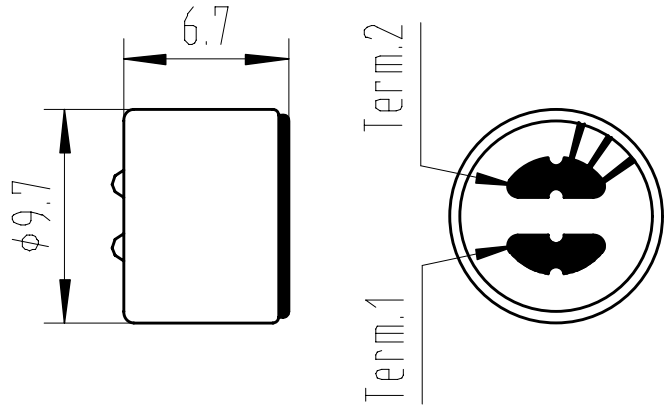
TYPE: “FB” Electret Condenser Microphone

Part No. : EM-9767

1.	Seope	This spccification applies electret condenser microphone (E.C.M)
2.	Model No.	EM-9767
3.	Operation Condition	
	3.1 Temperature	-20~+70°C
	3.2 Rel,Humidity	35%~85%RH
	3.3 Pressure	86~106Kpa
	3.4 Environmental Noise	36dB (Maximum)
	3.5 Operation Voltage	1~10VDC
	3.6 Earth	⊙
4.	Electrical Characteristics	
	4.1 tandardOperationVoltage	3VDC
	4.2 Impedance	2.2k Ω (Maximum)
	4.3 Current Consumption	0.5mA (Maximum)
	4.4 Sensitivity	-37dB±1dB(0dB=1V/Pa,1KHz) -57dB ± 1dB (0dB=1V/ μ bar, 1KHz) Vs=4.5V R1=2.2k Ω
	4.5 Directivity	Omni-directional
	4.6 S/N Ratio	40dB(Minimum)

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<p>4.7 测试电路图 Schematic Diagram</p> <p>$V_s = 4.5V$; $R_1 = 2.2k\Omega$; $C = 1\mu F$</p>	
<p>4.8 测试环境温度 Test Temperature</p> <p>测试环境湿度 Rel.Humidity</p>	<p>$20^{\circ}C \pm 2^{\circ}C$</p> <p>45%~65%RH</p>
<p>4.9 频率响应曲线 Frequency Response</p>	
<p>5. 机械性能 Mechanical Characteristics</p>	
<p>5.1 尺寸 Dimension</p>	<p>$\phi 9.7 \pm 0.1 \times 6.7 \pm 0.2$</p>
<p>5.2 重量 Mass</p>	<p>$\leq 1g$</p>
<p>5.3 外形图 Dimensional Drawing</p>	

6.	<p>Reliability Tests</p> <p>The sensitivity to be within $\pm 3\text{dB}$ of initial sensitivity after 3 hours conditioning at 20°C.</p>	
6.1 Vibration		<p>Frequency1 $10\text{Hz}\sim 55\text{Hz}$</p> <p>Amplitude $\pm 0.15\text{mm}$</p> <p>Frequency2 $55\text{Hz}\sim 150\text{Hz}$</p> <p>Acceleration 20m/s</p> <p>Change of Frequency 1octave/min</p> <p> 2 hrs in each of 3 axes</p>
6.2 Shocks		<p>Pulse Shape Half Sinusoidal</p> <p>Puise Duration 11ms</p> <p>Acceleration 150m/s^2</p> <p>Number of Jolts 10 in each of 3 axes</p>
6.3 Dry Heat/Cold	70 $^\circ\text{C}$ for 72hrs	-20 $^\circ\text{C}$ for 72hrs
6.4 Damp Heat	90%RH,+40 $^\circ\text{C}$ for 120hrs	
6.5 Temperature Cycles	(2h)(1h)(2h)(1h)(2h)	10cycles
7.	<p>Cautions</p> <p>7.1 The soldering copper of a smaller type of less than 20W shall be applied.</p> <p>7.2 The temperaure of the working surface of the soldering copper shall be below 270°C.</p> <p>7.3 E.C.M shall be solderde fixed on the metal block (heat sink)which has the higher Radiation effects heat sink shall contact with each of E.C.M.</p> <p>7.4 The soldering time for each terminal shall be 1~2 sec.</p> <p>7.5 The pin hole soldering shall be avoided.</p> <p>7.6 E.C.M may easily destroyed by the static electricity,and the countermeasure for eliminating The stativelectricity (the ground for soldering copper,for worktable and for human body) shall be executed.</p>	