

NINGBO BEST GROUP CO.,LTD

产 品 规 格 书

SPECIFICATION

drawing no:2010061201

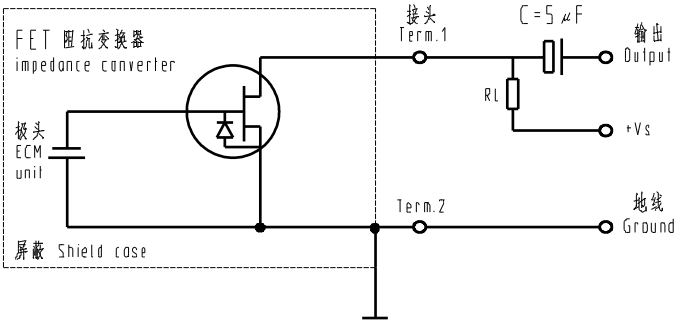
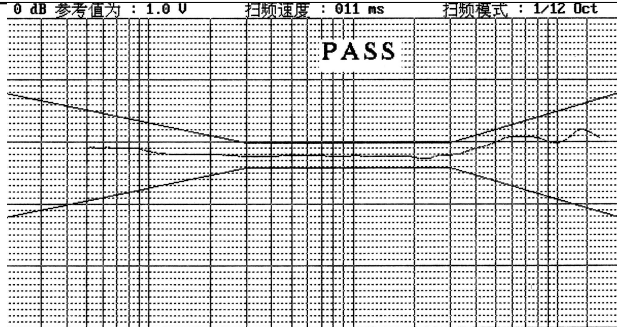
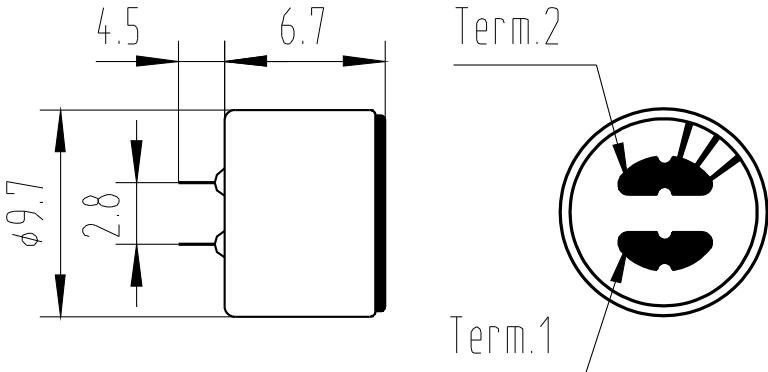
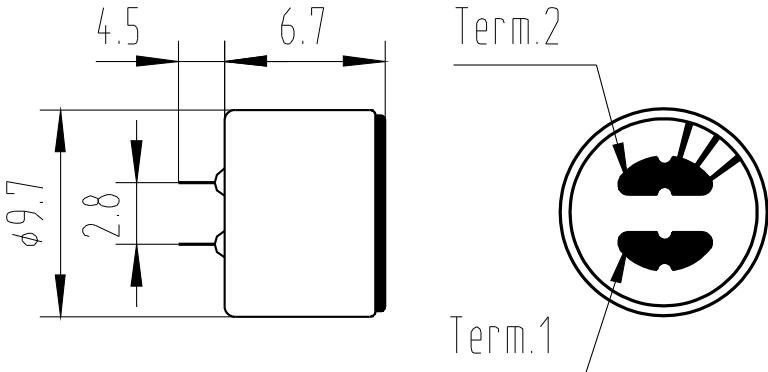
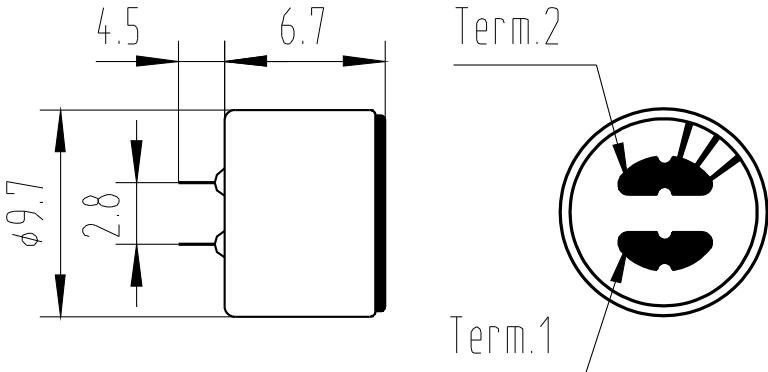
TYPE: “FB” Electret Condenser Microphone

Part No. : EM-9767P

1.	适用范围: Seope	本规格书适用于驻极体式电容传声器 This specification applies electret condenser microphone (E.C.M)
2.	型号: Model No.	EM-9767P
3.	使用条件: Operation Condition	
	3.1 环境温度 Temperature	-20~+70℃
	3.2 相对湿度 Rel,Humidity	35%~85%RH
	3.3 大气压力 Pressure	86~106Kpa
	3.4 环境噪声 Environmental Noise	36dB (最大) 36dB (Maximum)
	3.5 工作电压范围 Operation Voltage	1~10VDC
	3.6 接地方式: Earth	⊙
4.	电性能 Electrical Characteristics	
	4.1 基准工作电压 Standard Operation Voltage	3VDC
	4.2 阻抗 Impedance	2.2kΩ (最大) 2.2kΩ (Maximum)
	4.3 消耗电流 Current Consumption	0.5mA (最大) 0.5mA (Maximum)
	4.4 灵敏度 Sensitivity	-60dB±1dB Vs=4.5V R1=2.2kΩ
	4.5 指向性 Directivity	全指向性 Omni-directional
	4.6 信噪比 S/N Ratio	40dB(最小) 40dB(Minimum)

WRTN	CHKD	APVD	DESCRIPTION

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4.7 测试电路图 Schematic Diagram $V_s = 4.5V$; $R_1 = 2.2k\Omega$; $C = 1\mu F$							
4.8 测试环境温度 Test Temperature 测试环境湿度 Rel.Humidity	$20^{\circ}C \pm 2^{\circ}C$ 45%~65%RH						
4.9 频率响应曲线 Frequency Response							
5. 机械性能 Mechanical Characteristics	<table><tr><td data-bbox="472 1252 791 1350">5.1 尺寸 Dimension</td><td data-bbox="791 1252 1460 1350">$\phi 9.7 \pm 0.1 \times 6.7 \pm 0.2$</td></tr><tr><td data-bbox="472 1350 791 1500">5.2 重量 Mass</td><td data-bbox="791 1350 1460 1500">$\leq 1g$</td></tr><tr><td data-bbox="472 1500 791 1993">5.3 外形图 Dimensional Drawing</td><td data-bbox="791 1500 1460 1993"></td></tr></table>	5.1 尺寸 Dimension	$\phi 9.7 \pm 0.1 \times 6.7 \pm 0.2$	5.2 重量 Mass	$\leq 1g$	5.3 外形图 Dimensional Drawing	
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5.3 外形图 Dimensional Drawing							

6.	可靠性试验 Reliability Tests 试验后，置于 20°C 环境中恢复 3 小时，试验前后灵敏度的变化在±3dB 以内。 The sensitivity to be within ±3dB of initial sensitivity after 3 hours conditioning at 20°C.
6.1 振动试验 Vibration	频率 1 Frequency1 10Hz~55Hz 振幅 Amplitude ±0.15mm 频率 2 Frequency2 55Hz~150Hz 加速度 Acceleration 20m/s 频率变化 Change of Frequency 1 倍频程/分 1 octave/min 3 个方向，各 2 小时 2 hrs in each of 3 axes
6.2 冲击试验 Shocks	脉冲波形 Pulse Shape 正弦半波 Half Sinusoidal 脉冲宽度 Pulse Duration 11ms 加速度 Acceleration 150m/s ² 冲击次数 Number of Jolts 3 个方向，各 10 次 10 in each of 3 axes
6.3 高低温试验 Dry Heat/Cold	70°C, 72 小时 -20°C, 72 小时 70°C for 72hrs -20°C for 72hrs
6.4 高温高湿 Damp Heat	90%RH, +40°C, 120 小时 90%RH, +40°C for 120hrs
6.5 温度交变试验 Temperature Cycles	-20°C ↔ 25°C ↔ 70°C 10 次 (2h)(1h)(2h)(1h)(2h) 10 cycles
7.	注意事项 Cautions 7.1 焊接型传声器的焊接，请使用 20W 以下的小型电烙铁。 The soldering copper of a smaller type of less than 20W shall be applied. 7.2 焊接时铜箔表面温度应低于 270°C。 The temperaure of the working surface of the soldering copper shall be below 270°C. 7.3 应把驻极体传声器固定在散热良好的装置台上进行焊接。 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. 7.4 每个焊点的焊接时间应在 1~2 秒之内。 The soldering time for each terminal shall be 1~2 sec. 7.5 焊接后，各焊点不应出现砂眼现象。 The pin hole soldering shall be avoided.

	7.6 驻极体传声器容易受静电破坏，应采取防静电措施（焊接器具、工作台、操作人员人体应接地） 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.
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