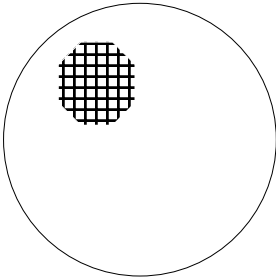
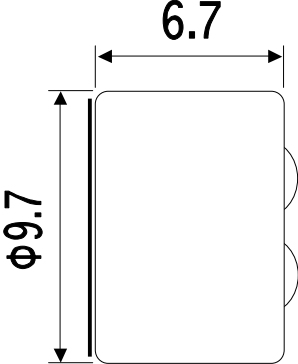
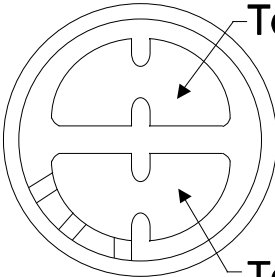
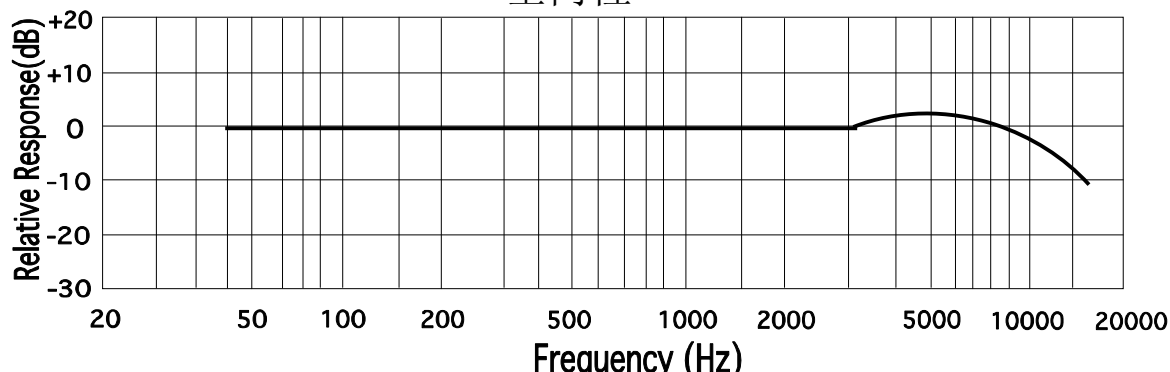
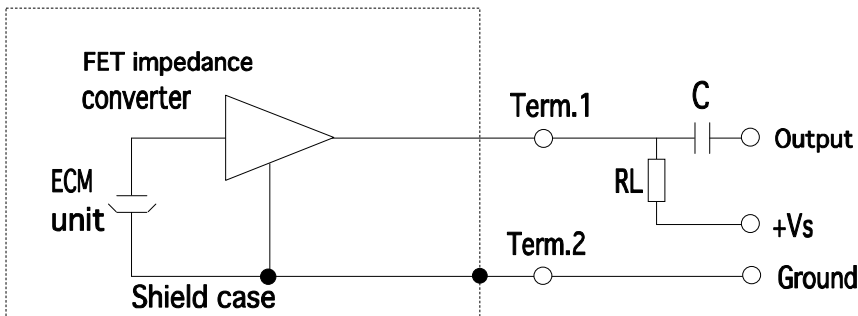
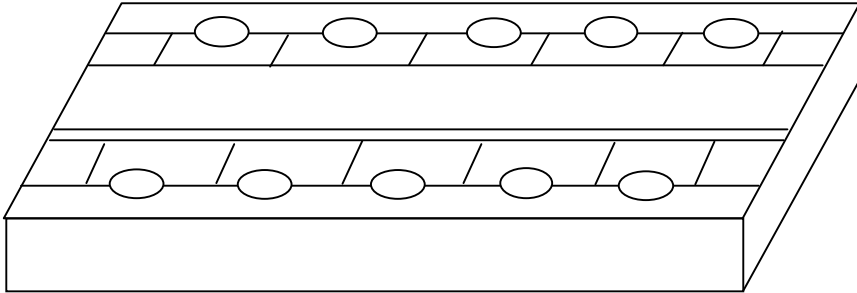
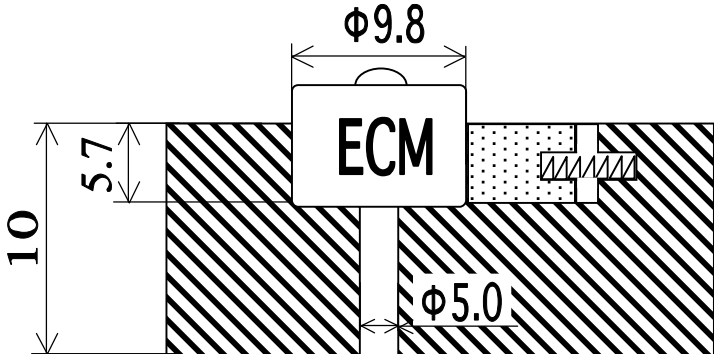


1.	适用范围 Scope	本规格书适用于驻极体电容式麦克风 This specification applies electret condenser microphone			
2.	型号 Model No.	OF-97671L54 (EM-4F)			
3.	试验条件 Test Condition				
	3-1标准试验条件 Standard Test Condition	温度 / Temperature : 5~35℃ 相对湿度/Rel. Humidity : 45~85%(RH) 气压 / Pressure : 86~106KPa			
	3-2判定试验条件 Judgment Test Condition	温度 / Temperature : 20±2℃ 相对湿度/Rel. Humidity : 60~70%(RH) 气压 / Pressure : 86~106KPa			
4.	规格 Specifications				
	4-1 尺寸 Dimension	Φ 9.7±0.2×6.7±0.2 (H)mm			
	4-2 Electret	Foil Electret			
	4-3 指向性 Directivity	Omni-directional			
	4-4 灵敏度 Sensitivity	-54±3dB (0dB=1V/μbar, 1KHz)			
	4-5 尺寸图 Appearance and Dimension Unit: mm				
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4-6 负载阻抗 Operating Impedance	2.2K $\Omega$		
4-7 基准电压 Standard Power Supply	3.0V		
4-8 操作电压 Operating Voltage	D.C 1~10V (Sensitivity Reduction: Within $-3\text{dB}$ at 1.0V Compare to 3.0V)		
4-9 频响特性 Frequency	20-16,000Hz		
4-10 消耗电流 Current Consumption	Max. 0.5mA		
4-11 信噪比 S/N Ratio	More than 54dB		
4-12 最大输入声压 Max input sound level	110dB SPL		
4-13 周波数特性 Typical Frequency Response Curve 全向性			
			
4-14 回路图 Test Circuit			
			
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5.	信赖性试验 Reliability Test			
	经过以下所有试验在20℃的条件下放置3小时后,麦克风的灵敏度与试验前比较变化在±3Db 以内。 After any following tests, the sensitivity of the microphone to be within ±3Db of initial sensitivity after 3hours of conditioning at 20℃.			
	5-1 振动试验 Vibration	周波数1/ Frequency1 : 10Hz~55Hz 振幅 / Amplitude : 1.52mm 变化 /Change of Frequency: 1 octave/min 3方向, 各2小时/2 hours in each of 3 axes		
	5-2 高温试验 Dry Heat	+70℃ for 72 hours		
	5-3 低温试验 Dry Cold	-20℃ for 72 hours		
	5-4 高温高湿试验 Damp Heat	90%~95%RH,+40℃ for 240 hours		
	5-5 温度循环试验 Temperature cycles	-20℃↔25℃↔70℃↔-20℃ (2h) (1h) (2h) (1h) (2h) (2h) × 10 cycles		
	5-6 跌落试验 Packing drop test	Height: 1m 顺序: 三个面各跌5次 Procedure: 5 times from each of 3 axes		
6.	备注 Note			
	6-1 动作温度范围 Operation Temperature	-40℃~75℃		
	6-2 保存温度范围 Storage Temperature	-40℃~75℃		
7.	焊接条件 Soldering Condition			
	7-1 焊接使用13W~20W的电烙铁。 The soldering copper of a small type of 13W~20W shall be applied.			
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7.	焊接条件 Soldering Condition		
	7-2 电烙铁表面温度低于320℃。 The temperature of the working surface of the soldering copper shall be below 320℃		
	7-3 焊接时把麦克风嵌入散热能力强的金属块内。 ECM shall be soldered fixed on the metal block (heat sink) which has the higher radiation effects said heat sink shall contact with of ECM.		
	7-4 焊接时间控制在1~2秒内。 The soldering time for each terminal shall be 1~2 sec.		
	7-5 焊接后不能出现针孔。 The pinhole after soldering shall be avoided.		
	7-6 静电容易破坏麦克风必须采取措施避免（电烙铁接地，戴静电环等。） ECM 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.		
	7-7 放热板形状 Shape of heat sink		
			
7-8 固定部孔形状 Shape of hole at fixed part			
			
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