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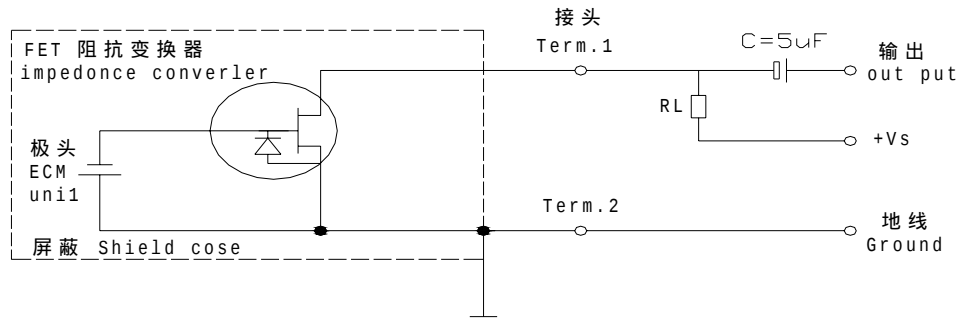
SPECIFICATION

Part No:EM9465/2

1.适用范围: Seope	本规格书适用于驻极体式电容传声器 This spccification applies electret condenser microphone(E.C.M)		
2.型号: Model No.	EM9465/2		
3.使用条件: Operation Condition			
3.1 环境温度 Temperature	-25 ~ +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	最大(Maximum):36dB		
3.5 工作电压范围 Operation Voltage	1 ~ 10VDC		
4.电性能 Electrical Characteristics			
4.1 基准工作电压 StandardOperation Voltage	4.5VDC		
4.2 阻抗 Impedance	最大(Maximum):2.2K Ω		
4.3 消耗电流 Current Consumption	最大(Maximum):0.5mA		
4.4 灵敏度 Sensitivity	-40dB $\pm$ 3dB Vs=4.5V R1=2.2K Ω (0dB=1V/Pa,1KHZ)		
4.5 指向性 Directivity	全指向性(Omni-directional)		
4.6 信噪比 S/N Ration	最小(Minimum):60dB		
4.7 测试环境温度 Test Temperature	20 $\pm$ 2		
测试环境湿度 Rel.Humidity	45% ~ 65%RH		

4.8 测试电路图

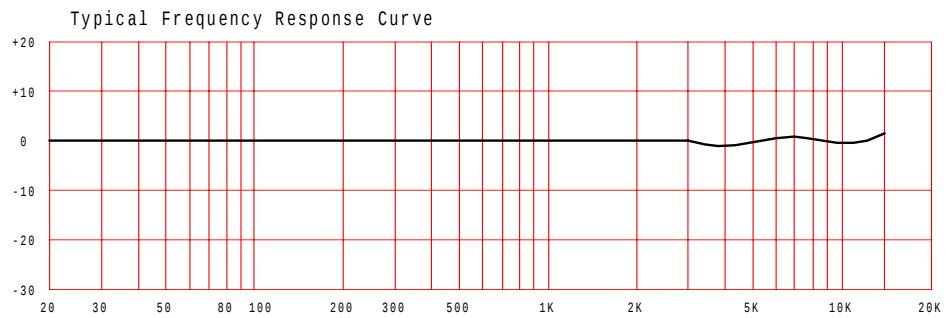
Schematic Diagram

 $V_s=4.5V$; $R_1=2.2K\Omega$; $C=5\mu F$ 

4.9 频率响应曲线

Frequency Response

Frequency Response



5.机械性能

Mechanical Characteristics

5.1 尺寸

Dimension

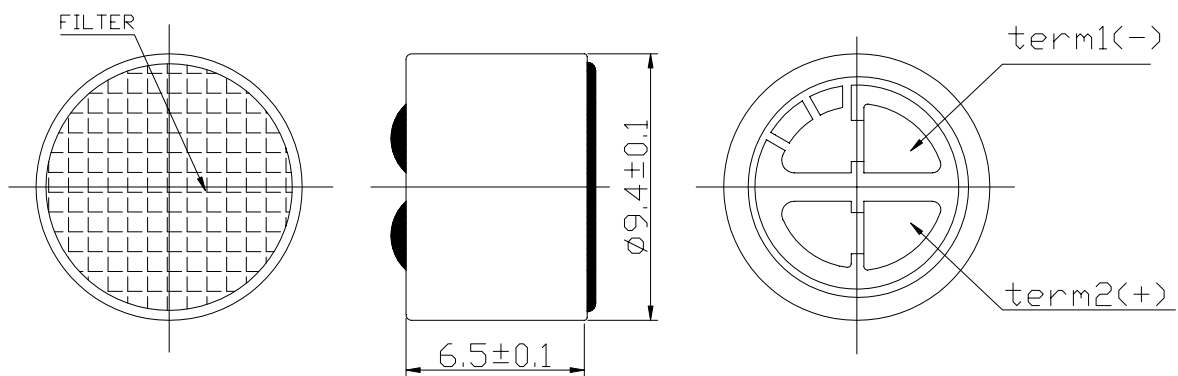
 $\Phi 9.4 \pm 0.1 \times 6.5 \pm 0.1$

5.2 重量

Mass

 $\leq 1g$

5.3 外型图 Dimensional Drawing



6.可靠性试验 Reliability Tests

在下列试验完成后,置于温度为 20 ,相对湿度为 65%的环境中恢复 2 小时后进行测试,灵敏度与初始灵敏度相差在 $\pm 3\text{dB}$ 以内。

The sensitivity to be within $\pm 3\text{dB}$ of initial sensitivity after 2 hours conditioning at 20

6.1 震动试验 Vibration Test	振幅 (Amplitude): 1.52mm 持续范围 (Duration): 1minute 频率范围 (Frequency range): 10Hz ~ 55Hz 3 个方向, 各 2 小时 2 hours in each of 3 axes
6.2 跌落试验 Drop test	不带包装的跌落到水泥地上 (Drop a unit unpacked onto a board) 高度 (Height) 1m 次数 (Cycle) 6(1 each plane)
6.3 高温试验 Low temperature Test	温度 (temperature): +70 放置时间 (Duration): 200hours
6.4 低温试验 Low temperature Test	温度 (temperature): -20 放置时间 (Duration): 200hours
6.5 湿度试验 Statcal Humidity Test	温度 (temperature): +60 相对湿度 (Relative humidity) 90 ~ 95% 放置时间 (Duration): 200hours
6.6 温度循环试验 Temperature Cycle Test	-25 $\leftarrow \rightarrow$ 20 $\leftarrow \rightarrow$ 70 $\leftarrow \rightarrow$ 20 5 次 (30m) (10m) (30m) (10m) 5cycles
6.7 温度聚变试验 Temperature Change Test	低温 (Low temperature) -40 高温 (Low temperature) +85 转化时间 (Changeover time) 30min 放置时间 (Duration) 60min 次数 (Cycle) 32
6.8 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
6.9 静电试验 ESD Test	在两次无杂质的静电释放暴露中放电.(接触: $\pm 8\text{Kv}$,空气: $\pm 15\text{Kv}$)麦克风在 10 次暴露后无干扰. The microphone under test be discharged between each ESD exposure without ground.(contact:: $\pm 8\text{Kv}$,air: $\pm 15\text{Kv}$)There is no interference in operation after 10 times exposure.

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 smaller type of less 20W shall be applied.

7.2 焊接时铜箔表面温度应低于 270 .

The temperaure of the working suface of the soldering copper shall be below 270 .

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 soldered 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.

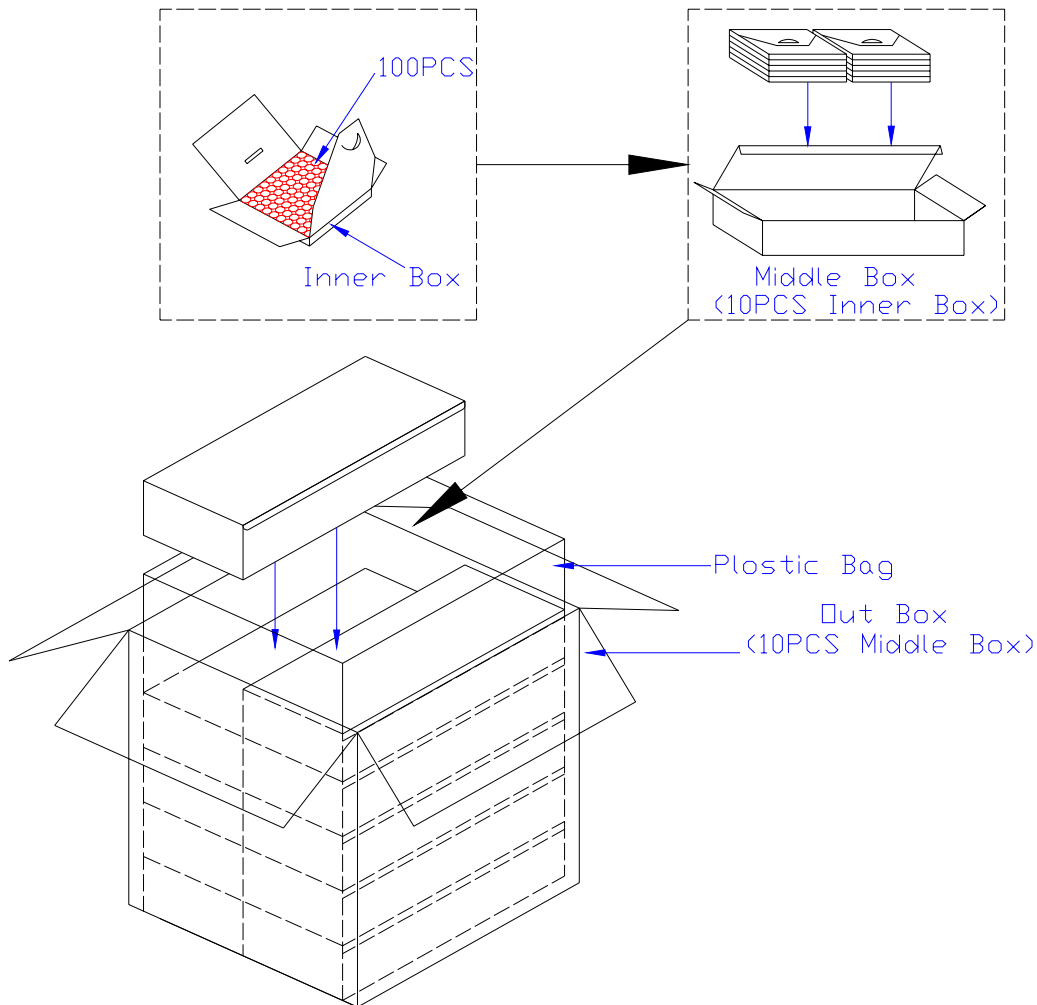
7.5 焊接后,各焊点不应出现沙眼现象.

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)

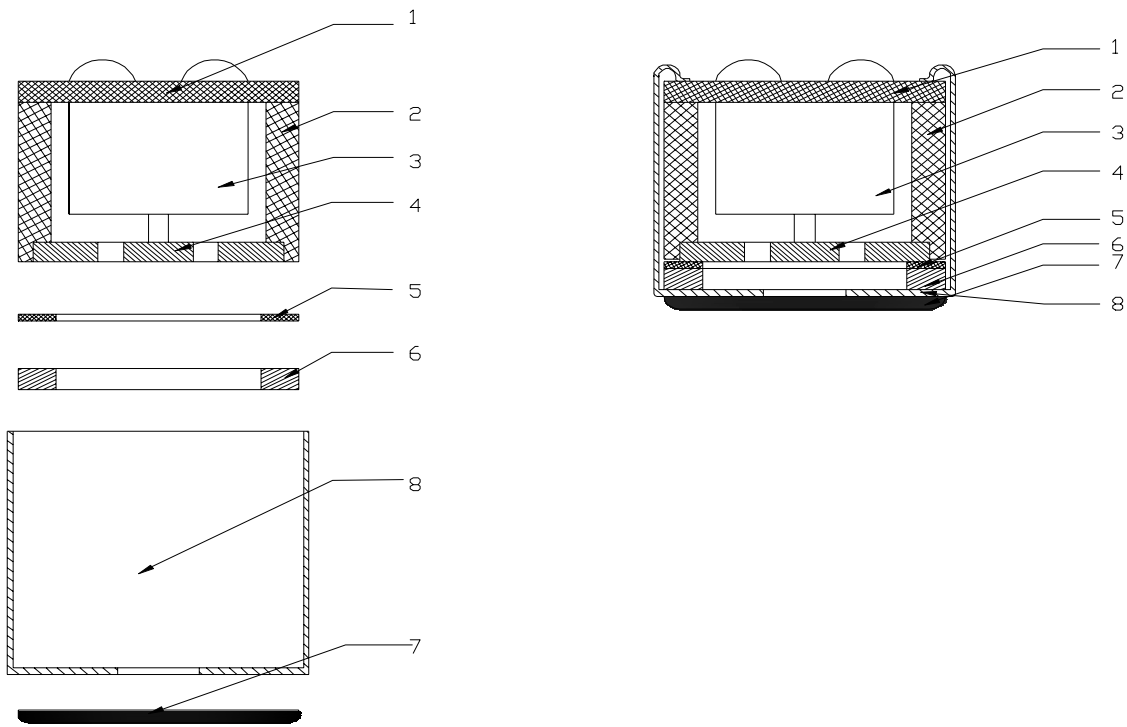
E.C.M may easily destroyed by the static electricity and the countermeasure for eliminating
The static electricity (the ground for soldering copper for worktable and for human body) shall be executed.

8.包装规格(Packing Specifcatons)



Inner Box	100mm × 100mm × 8mm	100PCS × 1 = 100PCS
Middle Box	205mm × 105mm × 48mm	1000PCS × 10 = 1000PCS
Out Box	230mm × 230mm × 255mm	1000PCS × 10 = 10000PCS

9. 材料及结构清单(List and Structure of Materials)



No. 序号	Part name 部件名称	Materials Type 材料型号	Qty 数量	Origin 产地	Manufacture 协力厂商	Remarks 备注
1	P.C.B	Carton	1	China	Shuzhou	
2	Plastic Ring	ABS	1	China	Changshu	
3	FET	2SK596	1	China	Beijing	
4	Back plate	Copper Blank	1	China	Changshu	
5	Spacer	Mylar	1	China	Hebei	
6	Diaphragm	FEP50A	1	USA	Dupont	
7	FELT	Fabric Cloth	1	China	Dongguan	
8	Case	AL	1	China	Shanghai	
9						
10						