



Ningbo City Yinzhou Shengguang Electronics CO.LTD

深圳市锋洲电子

APPROVAL SHEET (承認書)

Product: Electret Condenser Microphone (駐機體電容式傳聲器)

Model	OFM6022P 单电容
Customer name	
Sensitivity	-58±2dB
Test Condition	4.5V 2.2KΩ

DESIGNED BY	
REVISED BY	
APPROVED BY	
SUBMISSION DATE	

CUSTOMER:

P/N of Customer:

APPROVED BY	APPROVED DATE

NINGBOSHI YINZHOU SHENGGUANG ELECTRONICS CO.,LTD

Factory : Shanglijia Village Yinzhou Distric Ningbo City

TEL: (0574)88473092 FAX: (0574)88473710



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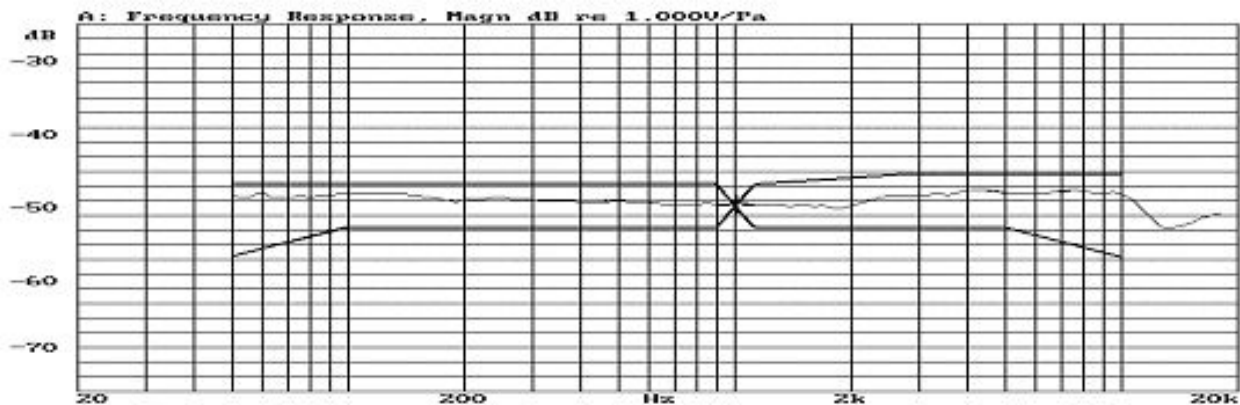
Electret Condenser Microphone Specification

1、Electrical Characteristics:

Test Condition ($V_s=4.5V$ $R_L=2.2K\Omega$ $T_a=20^\circ C$ R.H.=70%)

Item	Symbol	Test Conditions	Minimum	Standard	Maximum	Unit
Sensitivity	S	$P_{in}=1 Pa$, $f=1kHz$	-56	-52	-54	dB
Output Impedance	Z_{out}	Low Impedance				
Directivity		Unidirectional				
Current consumption	I				500	μA
S/N ratio (A)	S/N (A)	$P_{in}=1 Pa$, $f=1kHz$ (A Curve)	56			dB
Decreasing Voltage Characteristic	ΔS	$P_{in}=1 Pa$, $f=1kHz$ $V_s=2.0 \sim 1.5V$			-3	dB
Operating Voltage		DC	1.5	4.5	10	V
Charging Type	Diaphragm					

2、Frequency Response Curve:



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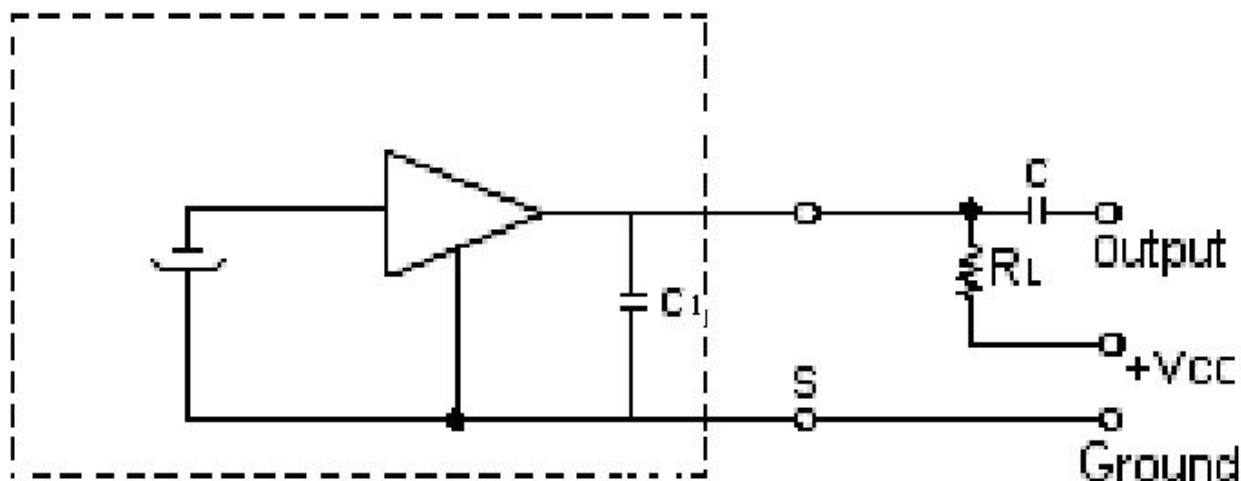


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Frequency(Hz)	100	200	900	1000	1200	2000	4000	5000	8000
Upper Limit(dB)	3	3	3	0	3	5	6	6	6
Lower Limit(dB)	-3	-3	-3	0	-3	-3	-3	-3	-5

4. Standard test circuit:



$R_L=2.2k\Omega$ (External resistor) $+V_{CC}=4.5V$ $C=1\mu F$

5、 Mechanical Characteristics

Dimension	See appearance drawing
Weight	Less than 1.0g
Operation Temperature	-30℃ to +70℃
Storage Temperature	-40℃ to +85℃

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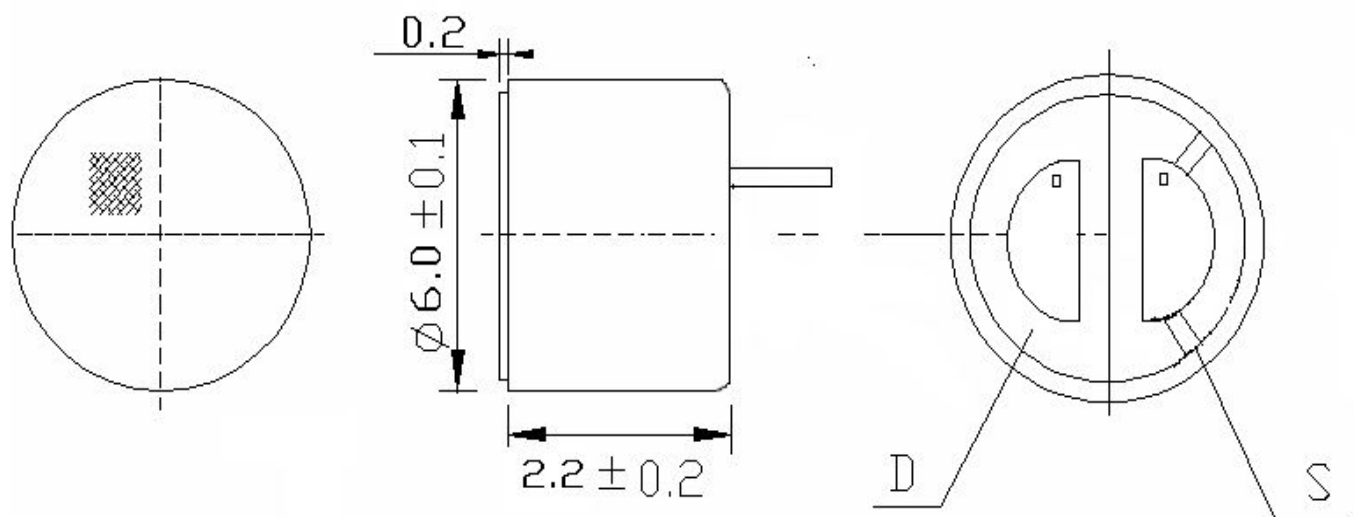
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6、 Appearance Drawing (Unit:mm)



7. Reliability Tests

Vibration Test	Vibration cycle of 10 to 50 Hz/min, for 2 hours, full Amplitude 1.52mm, in 3directions. The sensitivity change within $\pm 3\text{dB}$ relative to initial value.
Drop Test	To be no interference in operation after drop from 1.5 Meter height onto aconcrete surface, each time at three direction in state of packing, The sensitivity change within $\pm 3\text{dB}$ relative to initial value.
Operating Life	Subject samples to $+70^{\circ}\text{C}$ for 1000 hours under full rated power.

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深圳市锋洲电子 7. Reliability Tests

High Temperature Test	<p>The Microphone exposure at 70 °C for 200 hours, then measuring the sensitivity after depositing 2 hours of conditioning at room temperature.</p> <p>The sensitivity change within $\pm 3\text{dB}$ relative to initial value.</p>
Low Temperature Test	<p>The Microphone exposure at -30 °C for 200 hours, then measuring the sensitivity after depositing 2 hours of conditioning at room temperature.</p> <p>The sensitivity change within $\pm 3\text{dB}$ relative to initial value.</p>
Static Humidity	<p>Condition part at +25°C for 1 hour. Then expose to +70°C with 95% relative humidity for 240 hours. Finally allow to dry at room ambient for 4 hours before taking final measurements, The sensitivity change within $\pm 3\text{dB}$ relative to initial value.</p>
Temperature Shock	<p>32 cycles of the following:</p> <p>30 minutes at -40°C followed by 30 minutes at 85°C with a 20 second maximum transition time between temperature extremes,</p> <p>The sensitivity change within $\pm 3\text{dB}$ relative to initial value. 32 cycles of the following: 30 minutes at -40°C followed by 30</p>

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	minutes at 85°C with a 20 second maximum transition time between temperature extremes, The sensitivity change within $\pm 3\text{dB}$ relative to initial value.
Lead Pull Test (If applicable)	Subject test leads to an increasing pull force (between the wire or lead and the transducer) until destruction occurs. Record the point of destruction. The minimum pull strength is 1Kg (2.2 pounds).
Solder Heat Resistance (If applicable)	Flux the terminations using a RMA solder flux ,then manually immerse the terminations into a $260 \pm 5^\circ\text{C}$ solder pot containing 63/37 solder for 10 to 11 seconds.

8. Packing Specification

A、Small Packet 100pcs 61mmx65mmx9mm

(小包装盒 100 只/盒)

B、Middle Packet 1000pcs 140mmx45mmx65mm

(中包装盒 1000 只/盒)

C、Paper Case 10000pcs 390mmx230mmx300mm

(大包装盒 50000 只/盒)

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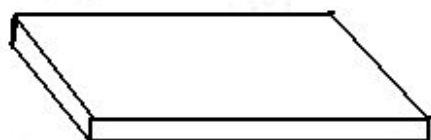
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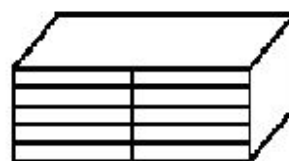
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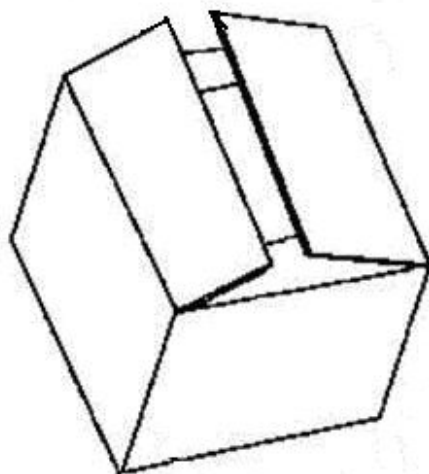


10 盒

小包装盒 100pcs



中包装盒 1000pcs



50 盒

大包装箱 50000pcs

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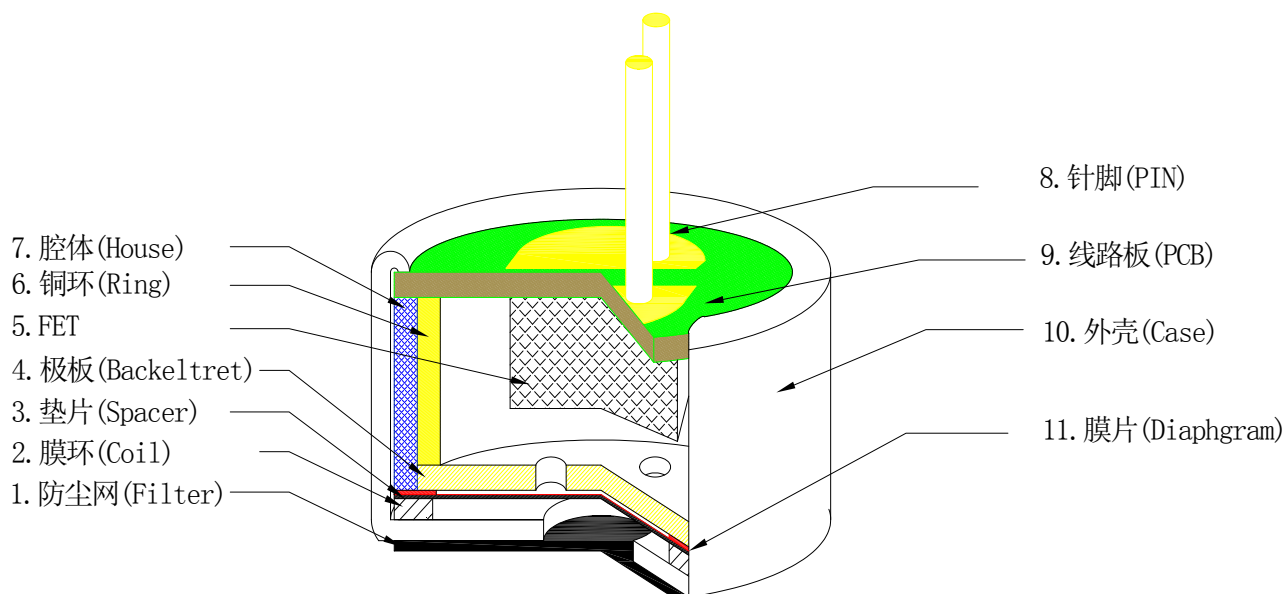
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11	膜片	Dvpont FEP	1
10	外壳	Al	1
9	线路板	Fr4	1
8	针脚	H65	1
7	腔体	Pbt	1
6	铜环	H62	1
5	FET	1109	1
4	极板	H62	1
3	垫片	聚酯	1
2	膜环	SP4	1
1	防尘布	无防布	1
序号	名称	材料	数量

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