Ningbo NingBo Best Group Co.,Ltd

APPROVAL SHEET (承認書)

Product: Electret Condenser Microphone (駐機體傳聲器)

Model	EM6050N
Customer name	
Sensitivity	−38DB±2DB
Test Condition	4. 5V 2. 2K Ω

DESIGNED BY	
REVISED BY	
APPROVED BY	
SUBMISSION DATE	

CUSTOMER:

P/N of Customer:

APPROVED BY	APPROVED DATE		

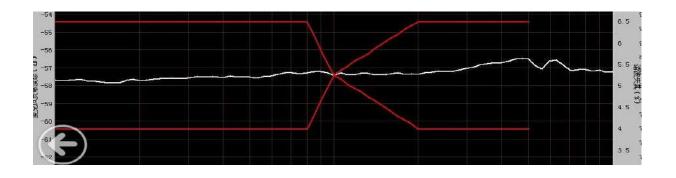
Electret Condenser Microphone Specification

1. Electrical Characteristics:

Test Condition (Vs=4.5V RL=2.2KΩ Ta=20°C R.H.=70%)

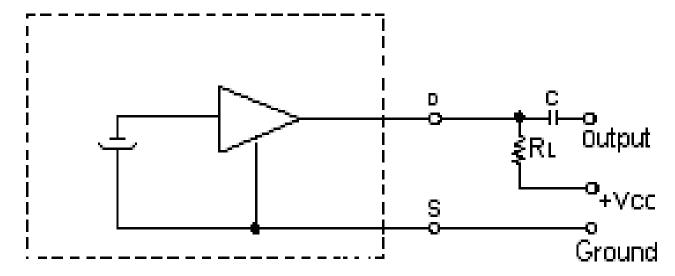
Item	Symbol	Test Conditions	Minimum	Standard	Maximum	Unit
Sensitivity	S	Pin=1 Pa , f=1kHz	-40	-38	-36	dB
Output	Zout	Low Impedance	Low Impedance			
Impedance						
Directivity		Unidirectional				
Current	I		200		400	μΑ
consumption						
S/N ratio (A)	S/N (A)	Pin=1 Pa , f=1kHz(A	50			dB
		Curve)				
Decreasing	ΔS	Pin=1 Pa , f=1kHz			-3	dB
Voltage		Vs=2.0~1.5V				
Characteristic						
Operating		DC	1.5	4.5	10	٧
Voltage						
Charging	Diaphra	gm				
Туре						

2. Frequency Response Curve:



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

3. Standard test circuit:

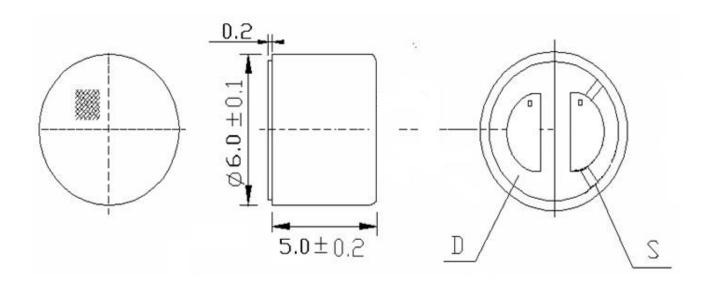


RL=2.2k Ω (External resistor) +Vcc=4.5V C=1uF

4. Mechanical Characteristics

Dimension	See appearance drawing
Weight	Less than 0.5g
Operation Temperature	-30°C to +70°C
Storage Temperature	-40°C to +85°C

5. Appearance Drawing (Unit:mm)



6. 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 ± 3 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°C for 1000 hours under full rated power.					

7. Reliability Tests

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

8. Reliability Tests

Lead Pull Test	Subject test leads to an increasing pull force (between the wire or
(If	lead and thetransducer) until destruction occurs. Record the point
applicable)	of destruction. Theminimum pull strength is 1Kg (2.2 pounds).

9. Packing Specification

A, Small Packet 100pcs 65mmx65mmx5mm

(小包裝盒 100 只/盒)

B, Middle Packet 1000pcs 130mmx65mmx75mm

(中包裝盒 1000 只/盒)

C, Paper Case 10000pcs 230mmx220mmx300mm

(大包裝盒 23000 只/盒)

