# APPROVAL SHEET (承認書)

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

Model	ЕМ6050Р	
Customer name		
Sensitivity	$-32\pm 2$ dB	
Test Condition	4.5V 2.2KΩ	

DESIGNED BY	
REVISED BY	
APPROVED BY	
SUBMISSION DATE	

#### **CUSTOMER:**

P/N of Customer:

APPROVED BY	APPROVED DATE	

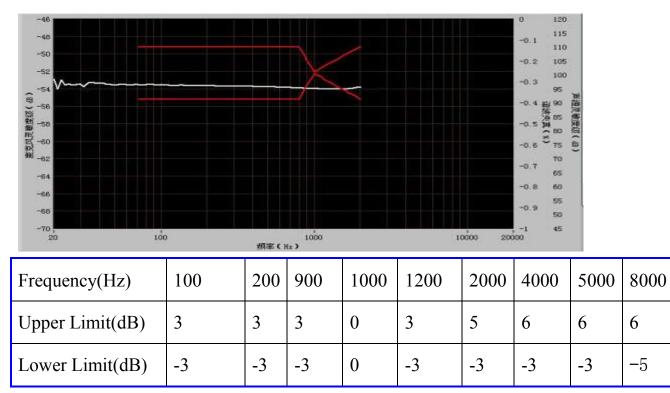
## Electret Condenser Microphone Specification

### 1. Electrical Characteristics:

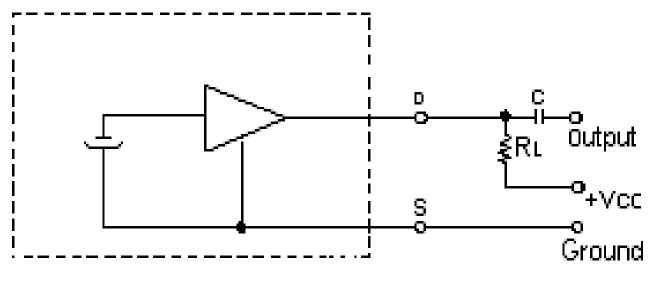
### Test Condition (Vs=4.5V RL=2.2KΩ Ta=20°C R.H.=70%)

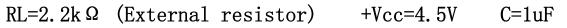
Item	Symbol	Test Conditions	Minimum	Standard	Maximum	Unit
Sensitivity	S	Pin=1 Pa ,	-34	-32	-30	dB
		f=1kHz				
Output	Zout	Low Impedance	9			
Impedance						
Directivity		Unidirectional				
Current	I				500	μA
consumption						
S/N ratio (A)	S/N (A)	Pin=1 Pa ,	32			dB
		f=1kHz(A				
		Curve)				
Decreasing	ΔS	Pin=1 Pa ,			-3	dB
Voltage		f=1kHz				
Characteristic		Vs=2.0~1.5V				
Operating		DC	1.5	4.5	10	V
Voltage						
Charging Type	Diaphrag	m				

### 2. Frequency Response Curve



### 4. Standard test circuit:

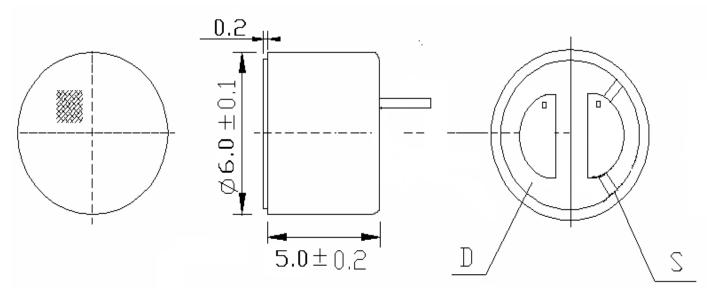




## **5**、 Mechanical Characteristics

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

# 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 $\pm 3$ 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 $\pm 3$ dB relative to initial value.
Operating Life	Subject samples to $+70^{\circ}$ C for 1000 hours under full rated power.

# 7. Reliability Tests

High	The Microphone exposure at 70 $^{\circ}C$ for 200 hours, then
Temperature Test	measuring thesensitivity after depositing 2 hours of conditioning
	at room temperature.
	The sensitivity change within $\pm 3$ dB relative to initial value.
Low Temperature	The Microphone exposure at -30 $\degree$ C for 200 hours, then
Test	measuring thesensitivity after depositing 2 hours of conditioning
	at room temperature.
	The sensitivity change within $\pm 3$ dB relative to initial value.
Static	Condition part at $+25^{\circ}$ C for 1 hour. Then expose to $+70^{\circ}$ 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 to initial value.	
Temperature	32 cycles of the following:	
Shock	30 minutes at -40 $^\circ \rm C$ followed by 30 minutes at 85 $^\circ \rm C$ with a 20	
	second maximum transition time between temperature extremes,	
	The sensitivity change within $\pm 3$ dB relative to initial value. 32	
	cycles of the following:30 minutes at $-40^{\circ}$ C followed by 30	

## 7. Reliability Tests

	minutes at $85^{\circ}$ with a 20 second maximum transition time
	between temperature extremes, The sensitivity change within $\pm$
	3dB relative to initial value.
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).
Solder Heat	Flux the terminations using a RMA solder flux ,then manually
Resistance	immerse theterminations into a $260 \pm 5 ^{\circ}\text{C}$ solder pot containing
(If applicable)	63/37 solder for 10 to 11 seconds.

## 8. Packing Specification

A, Small Packet 100pcs 65mmx65mmx5mm

