

Smp No: Eng. No:

APPROVAL SHEET

Product: Electret Condenser Microphone

Model	MD06050CSN-01
Customer name	
Sensitivity	−38±3dB
Test Condition	4.5V 2.2K

DESIGNED BY	William Liu
REVISED BY	
APPROVED BY	Geremy Feng
SUBMISSION DATE	2020/06/03

CUSTOMER:

P/N of Customer:

APPROVED BY	APPROVED DATE

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Customer:	P/N:	Smp No:	Eng No:
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ELECTRET CONDENSER MICROPHONE

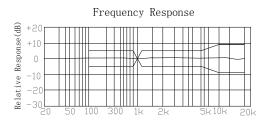
- ullet MODEL: MD06050CSN-01
- ullet CUSTOMER:

1. Electrical characteristics:

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Directivity	Omnidirectional
Pb containation Requirement	Lead free
Charging type	Diaphragm
Sensitivity	-38±3dB (0dB=1V/Pa, 1KHz)
Output impedance	Low impedance
Standard operating voltage	4. 5V
Operating voltage range	1V-10V
Current consumption	less than 500μA
Voltage deduction characteristic	Within 3dB at 4.0V
S/N Ratio	More than 62dB
	(SPL=1Pa,1KHz,A-weighting)
	I .

2. Frequency Response and Schematic Diagram:

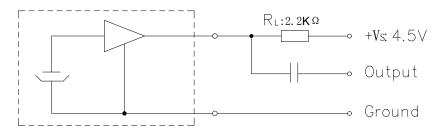
2.1 Typical Frequency Response Curve:



Microphone Response Tolerance Window

Frequency (Hz)	Lower Limit (dB)	Upper Limit(dB)
100	-5	5
200	-5	5
800	-5	5
1000	0	0
1200	-5	5
2000	-5	5
5000	-5	5
10000	-8	8
12000	-8	8

2.2 Schematic Diagram:



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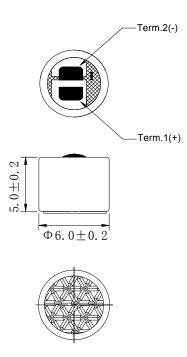


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3. Mechanical characteristics:

- 3.1 Weight:Less than 0.6g
- 3.2 Dimension:

Unit:mm



4. Soldering Condition

- **4.1** The soldering copper of a small type of $13{\sim}20\text{W}$ shall be applied.
- **4.2** The temperature of the working surface of the soldering copper shall be below 320°C .
- 4.3 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.
- **4.4** The soldering time for each terminal shall be 1^2 sec.
- 4.5 The pinhole after soldering shall be avoided.
- 4.6 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.

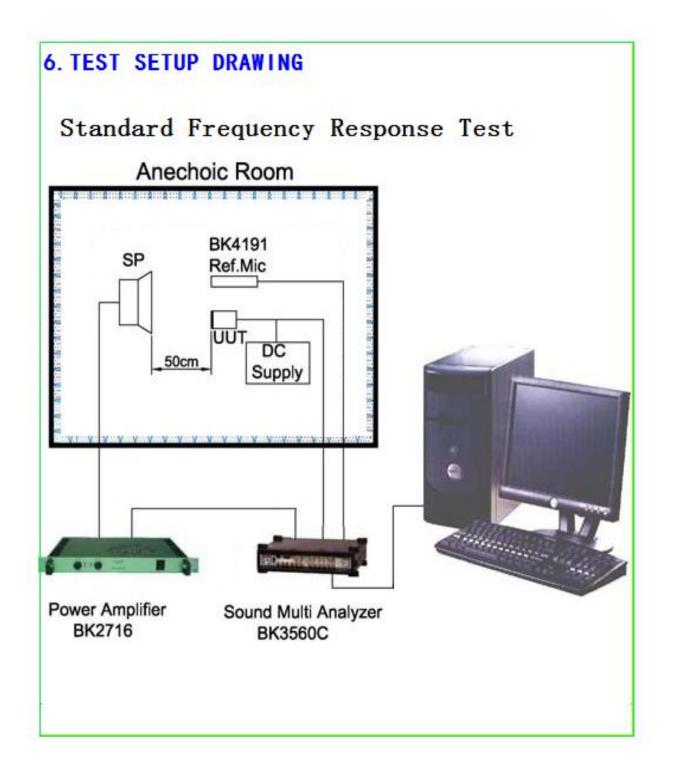
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5. PACKAGING:		
小包装	SMALL PACKET 61mm*61mm*6mm 100PCS/INHALE SMALL BOX	7 mm 61 mm
中包装	MID PACKET: 124mm*64mm*34mm 1000PCS/MID PACKET	中包装盒(1000只)
大包装	PAPER CASE: 360mm*130mm*200mm 20000PCS/PAPER CASE	中包装箱(20000只)

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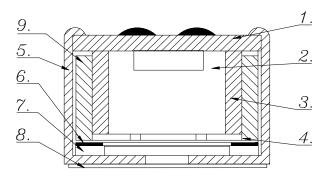
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7. Reliablity test:

Item		Test condition	Evaluation
1	High temperature Test	The part shall be capable of with— standing a storage temperature of +70 ℃ for 200 hours.	
2	Low temperature Test	The part shall be capable of with— standing a storage temperature of −20 °C for 200 hours.	
3	Temperature cycle test	The part shall be subjected to 5 cycle. One cycle shall consist of (+70 $^{\circ}$ C ,30min \rightarrow Room temp(+20 $^{\circ}$ C), 10min \rightarrow -20 $^{\circ}$ C30min \rightarrow Room temp(+20 $^{\circ}$ C), 10min)	After the test the ECM unit shall meet the requirement of no more than $\pm 3 \mathrm{dB}$ variation from
4	Humidity Test	The part shall be capable of with—standing a storage of humidity of $90\sim95\%$ at the $+40\%$ for 200 hours.	initial sensitivity after 2 hours recovering.
5	Drop Test	The microphone unit without package must be subjected to each 3 drops at three axises from the height of 1 meter to 20 mm thick hardwood board.	
6	Vibration Test	The microphone unit must be subjected to each 2 hours vibrations at three axises 2mm dynamic range, $10\sim50$ Hz/minute.	
7	Soldering Heat Resistance	Soldering iron of $+330 \pm 5 ^{\circ}\mathrm{C}$ should be placed on the terminal for 2 ± 0.5 seconds.	

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8. Drawing



1	PCB	7	振膜
2	FET	8	防水网
3	连接环	9	塑环
4	极板	10	
5	外壳	11	
6	垫片	12	

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