Customer (客户):	
Product Name(产品名称):	账 头
Zhenmei Part No. (臻美型号):	MIO6050N42-001
Specification (规格) : _	6.0*5.0 mm
Customer's Model No. (客户型号):	
Specification No. (规格书编号):	SQ06050N42-001
Number of the edition (版本号) :	A1
CUSTOMER' S APPROVED SIG	GNATURE 客户承认盖章



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Approved by 核准	Checked by 审核	Issued by 制成

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1. Scope

The specifications should be applied to electret condenser microphone of ${\tt MI06050}$

2. Storage And Judgement Conditions

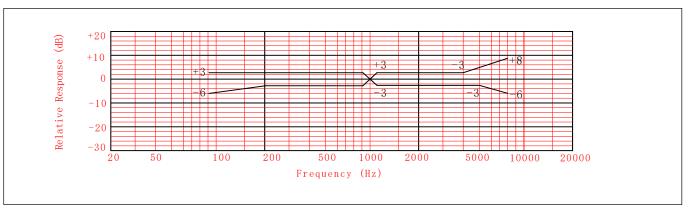
	Temperature Range(°C)	Rel. Humidity (%)	Static Pressure (kPa)
Judgement	19~21	60~70	86~106
Storage	-40~80		
Operating	-20~70		

3. Specifications

Test Conditions: Vs=4.5V, RL=2.2K Ω , Temp=20 \pm 2° C, R.H=60 \pm 5%

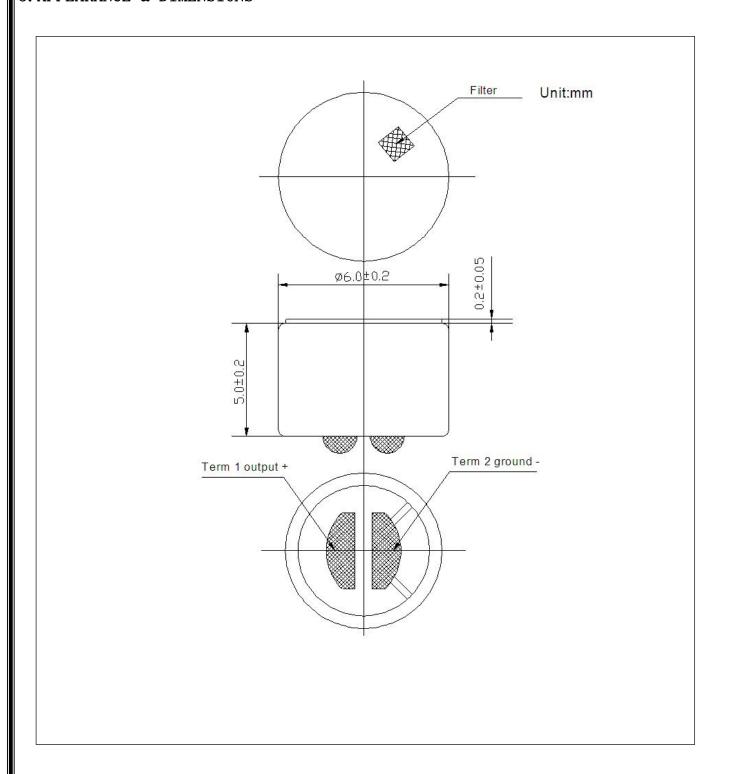
ITEM	Symbol	Test Conditions	Min	Standard	Max	Unit
Sensitivity	S	f=1KHz,	-44	-42	-40	dB
		S. P. L=1Pa				0dB=1V/Pa
Impedance	Z	f=1KHz,			2. 2	KΩ
		S. P. L=1Pa				
Directivity	Omni-directional					
Current Consumption	I				500	μΑ
Operation Voltage Range	Vs		1.0	4. 5	10	V
S/N Ratio	S/N(A)	f=1KHz, S. P. L=1 P a	58			dB
		A Curve				
Decreacing Voltage Characteristic	ΔS	f=1KHz, S. P. L=1 P a			-3	dB
		Vs=4. 5-3. 0V				
Max. Input Sound Level	MISPL	f=1KHz,			110	dB
		Distortion<1%				

4. Frequency Response



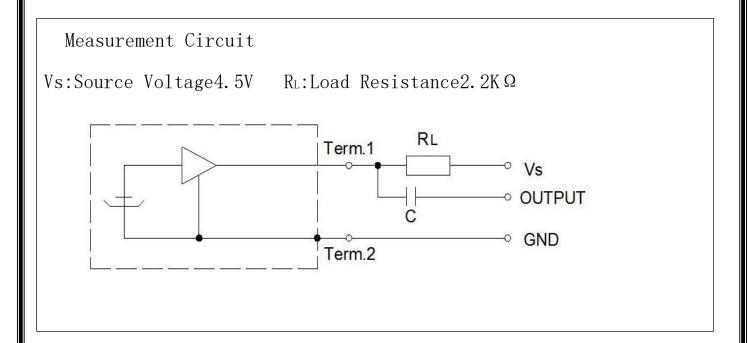
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5. APPEARANCE & DIMENSIONS

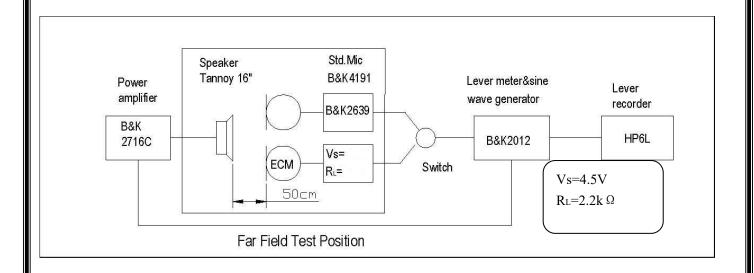


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6. Test Circuit



7. Test Setup Drawing



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8. Reliability Test

All tests should be done after 2 hours of conditioning at 20° C, R. H65%, while the sensitivity is to be within $\pm 3dB$ from the initial sensitivity after the following experiments.

8.1 High Temperature Test

High temperature: $+80^{\circ}$ C

Duration: 72 hours

8.2 Low Temperature Test

Low temperature: -40° C

Duration: 72 hours

8.3 Temperature Cycle Test (See in Fig.1)

Low temperature: $-40\,^{\circ}$ CHigh temperature: $+80\,^{\circ}$ CChangeover time:10minDuration:30minCycle:32

8.4 Statical Humidity Test

Temperature: $+40\,^{\circ}\text{C}$ Relative humidity: $90{\sim}95\%$ Duration: 72hours

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8.5 Vibration Test

Amplitude: 1.52mm

Duration: 1 minutes /plane Freq.range: $10 \sim 55 \text{ Hz}$ Total time: 2 hours

8.6 Dropping Test

Drop a unit unpacked onto a board of 20mm thick.

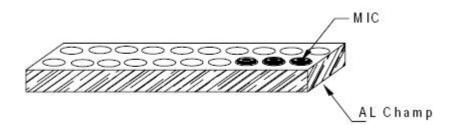
Height: 1.0 m Cycle: 6

8.7 ESD Test

The microphone under test must be discharged between each ESD exposure without ground. (contact: \pm 6KV, air: \pm 8KV)There is no interference in operation after 10 times exposure.

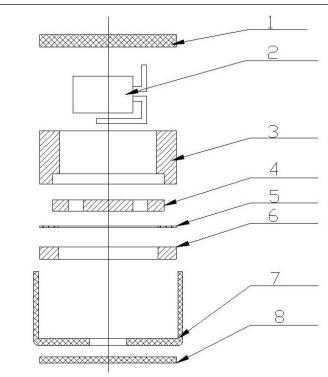
9. Regarding the Soldering operation

- a. Use 15~20W soldering iron and maintain 290 $^{\circ}\text{C}$ ~310 $^{\circ}\text{C}$ in operation.
- b. Operators who work in the solder fixture and the soldering iron must be statically grounded under each soldering process.
- C. Soldering should be accomplished within two seconds at each terminal so as not to be overheated.
- d. Optimal design for heat sink pad is same as below.



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10. List and Structure of Materials



NO.	PARTS
1	PCB
2	FET
3	Holder
4	Back plate
5	Spacer
6	Film
7	Outer most shell
8	Cloth

NO	Part name	Material Type	Qty	Origin	Manufacture	Remarks
1	PCB	FR-1	1			
2	FET	CSK596	1			
3	Holder	POM	1			
4	Back plate	Cu	1			
5	Spacer	Mylar	1			
6	Film	FEP	1			
7	Outer most shell	AL	1			
8	Cloth	Fabrics	1			

SPECIFICATION FOR APPROVAL	PAC
承 认 书	PA]

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11. HANDLING INSTRUCTION

- 1、Assembly process
 - a). After connector and holder are once disassembled, they should not be re-used.
- b). Do not touch outer springs directly(except for PCB or proper terminal set at nominal height.
 - c). Do not give any mechanical shocks to the micphone(e.g. dropping to floor)
- 2. General information
 - 2-1: This microphone shall not be operated or stored in following environment.
 - >where liquid(water, solvent and so on) splashes.
 - >where the air has a high concentration of corrosive gas .
 - >where is too dusty.
 - >where temperature changes rapidly.
- 2-2: Frequency response especially in high frequency region is dependent on the structure of enclosure.

Please remove additional acoustic mass or cavity in front of the microphone to the utmost.

- 2-3:do not put mechanical pressure more than 2 kg to the microphone.
- 2-4: microphone should not be in state of outgoing packing for a long-term storage.
- 2-5: all the soldering procedures upon microphone must be complete in a metallic device, the temperature of the soldering irons must be limited as 320° C and less 3 s , the operators , the solder fixtures and the soldering irons must be statically grounded under each soldering process.