

匯統國際股份有限公司

Huey Tung International Co., Ltd.

產品規格書 Specification

[Model : HT-01289 / 2015.05.12 Version]



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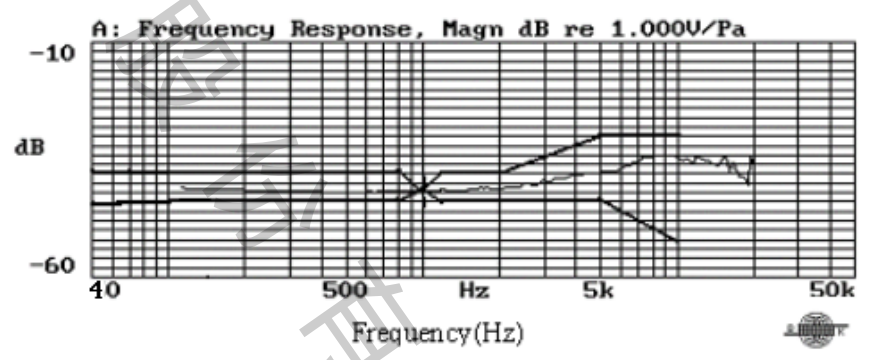
1 Name: Omni directional Electret Condenser Microphone (Foil Electret Type)

2 TYPE: HT-01289

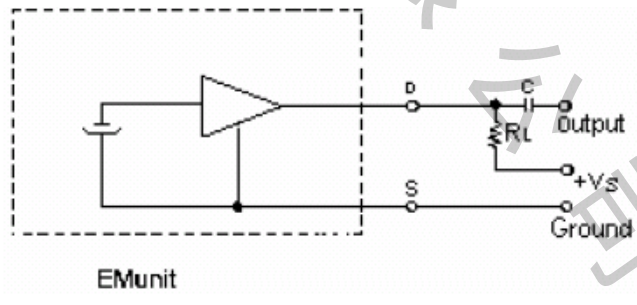
3 Electrical Specifications:

3.1	Sensitivity Range	-41±1dB RL=2.2KΩ Vs=4.5V (1KHz 0dB=1V/Pa)
3.2	Impedance	Max. 2.2KΩ 1KHz (RL=2.2KΩ)
3.3	Frequency	20-16000 Hz
3.4	Current Consumption	Max.0.3mA
3.5	Operation Voltage Range	1.1V-10V
3.6	Max. Sound Pressure Level	115dB S.P.L
3.7	S/N Ratio	More than 60dB
3.8	Sensitivity Reduction	4.5V-3.0V Sensitivity Variation less than 3dB

3.9 Typical Frequency Response Curve :



3.10 Schematic Diagram :

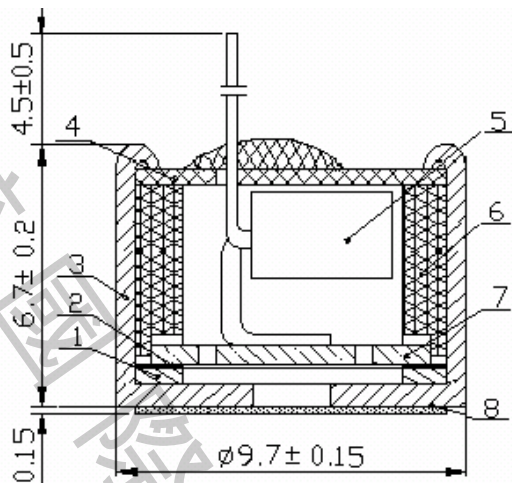


4 Mechanical Specifications :

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4.1

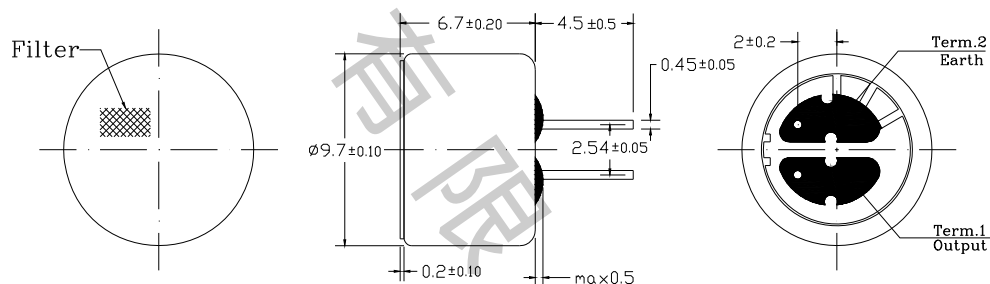
Drawing



NO.	NAME	MATERIAL	QTY	REMARK
8	FELT	Cotton decron textile	1	
7	ELECTRET BOARD	H62	1	
6	INNER HOUSING	ABS	1	
5	F. E. T		1	2SK596
4	P C B	Glass fiber	1	
3	CASE	AL	1	
2	SPACER	Polyster film	1	
1	POLARIZED DIAPHRAGM	Teflon	1	DUPONT

4.2

Dimension (mm):



4.3

Weight

1.1g

5. Reliability Tests: After any following tests, the sensitivity of the microphone unit shall not change more than $\pm 3\text{dB}$ from initial value, and shall keep their initial operation and appearance.

5.1

Hi-Temp. Test

The microphone unit must be subjected to $+70^{\circ}\text{C}$ for 200 Hours, and expose to room temperature for 3 Hours.

5.2

Low-Temp. Test

The microphone unit must be subjected to -25°C for 200 Hours, and expose to room temperature for 3 Hours.

5.3

Humi.&Heat Tes

The microphone unit must be subjected to $+40^{\circ}\text{C}$, 93% RH-for 200 Hours, and expose to room temp for 3 Hours.

5.4

Humidity Shocking Test

The microphone unit must be subjected to following conditions ($+50^{\circ}\text{C}$ 1H-room temp 1H; -10°C 1H-room temp 1H) at 5 cycle, and expose to room temp for 3 Hours.

	5.5	Vibration Test	The microphone unit must be subjected to a procedure that after vibrating for two hours from each of the two directions with a frequency of 10-55Hz and a 1.52mm-high amplitude.
	5.6	Dropping Test	The microphone unit must be subjected to a procedure that after dropping to a slippery marble floor for 5 times from a 1-meter-high without package.
6	Environmental Condition:		
	6.1	Storage condition	-40°C~+70°C R.H. less than 90%
	6.2	Operation condition	-20°C~+60°C R.H. less than 90%
	6.3	Arbitration condition	Temperature : 20°C±1°C Relative humidity : 63%~67% Air pressure : 86~106Kpa
7	Notices:		
	7.1	All the soldering procedures upon microphones must be completed in a metallic device, the temperature of the soldering iron must be limited as 310°C± 10°C .	
	7.2	Operators, the solder fixtures and the soldering irons must be statically grounded under each soldering process.	