

匯統國際股份有限公司

Huey Tung International Co., Ltd.

# 產品規格書 Specification

[ Model : HT-01291/ 2015.05.12 Version ]



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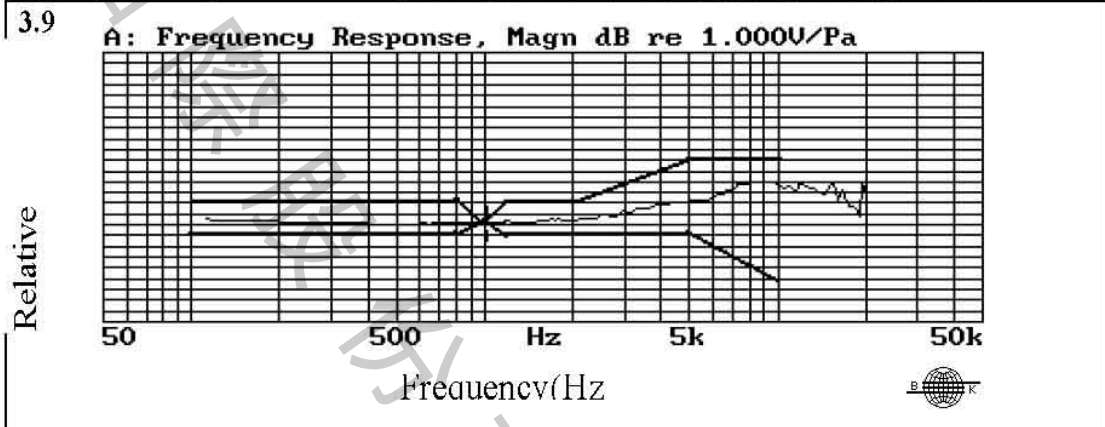
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1 Name: Omnidirectional Electret Condenser Microphone (Foil Electret Type)

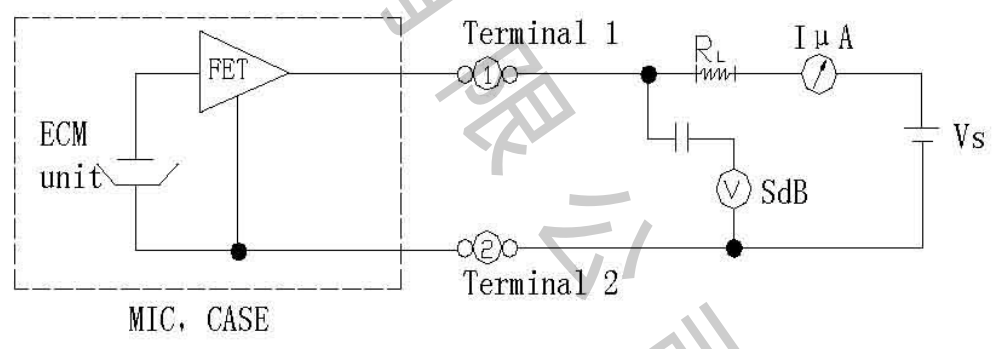
2 TYPE: HT-01291

3 Electrical Specifications:

3.1	Sensitivity Range	-42±3dB RL=2.2K Ω VCC=4.5V (1KHz 0dB=1V/Pa)
3.2	Impedance	Max .2.2K Ω 1KHz (RL=2.2K Ω)
3.3	Frequency	20-16000 Hz
3.4	Current Consumption	Max.0.5mA
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

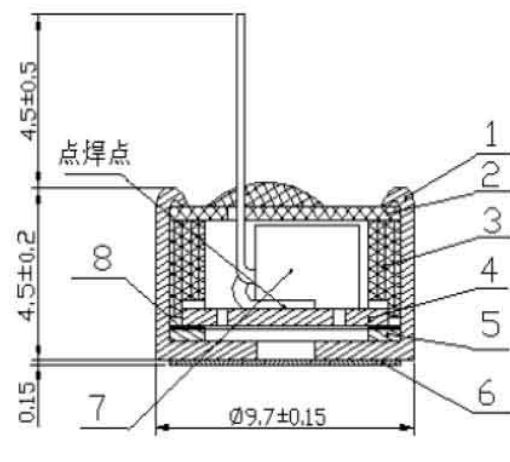


3.10 Schematic Diagram:

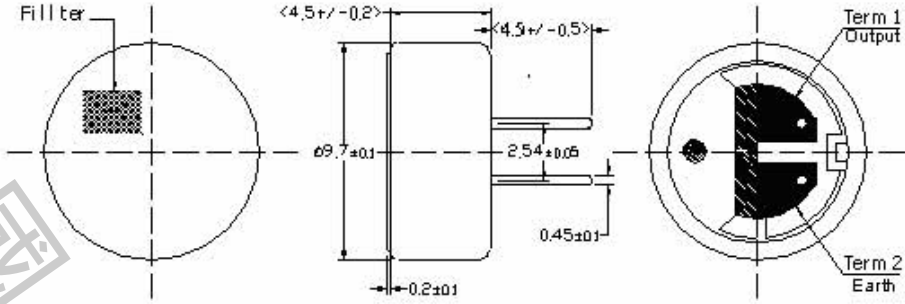


4 Mechanical Specifications:

4.1 Drawing



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

4.2	<b>Dimension (mm):</b> 	
4.3	<b>Weight</b>	0.6g
<b>5. Reliability Tests:</b> 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	<b>Hi-Temp. Test</b>	The microphone unit must be subjected to $+70^\circ\text{C}$ for 200 Hours, and expose to room temperature for 3 Hours.
5.2	<b>Low-Temp. Test</b>	The microphone unit must be subjected to $-25^\circ\text{C}$ for 200 Hours, and expose to room temperature for 3 Hours.
5.3	<b>Humi.&amp;Heat Tes</b>	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	<b>Humidity Shocking Test</b>	The microphone unit must be subjected to following conditions ( $+50^\circ\text{C}$ 1H-room temp 1H; $-10^\circ\text{C}$ 1H-room temp 1H) at 5 cycle, and expose to room temp for 3 Hours.
5.5	<b>Vibration Test</b>	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	<b>Dropping Test</b>	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.
<b>6 Environmental Condition:</b>		
6.1	<b>Storage condition</b>	$-40^\circ\text{C}\sim+70^\circ\text{C}$ R.H. less than 90%
6.2	<b>Operation condition</b>	$-20^\circ\text{C}\sim+60^\circ\text{C}$ R.H. less than 90%
6.3	<b>Arbitration condition</b>	Temperature : $20^\circ\text{C}\pm 1^\circ\text{C}$ Relative humidity: 63%~67% Air pressure : 86~106Kpa
<b>7 Notices:</b>		
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 $310^\circ\text{C}\pm 20^\circ\text{C}$ .	
7.2	Operators, the solder fixtures and the soldering irons must be statically grounded under each soldering process.	