

匯統國際股份有限公司

Huey Tung International Co., Ltd.

產品規格書 Specification

[Model : HT-01294 / 2011.07.01 Version]



Cara Audio Corporation

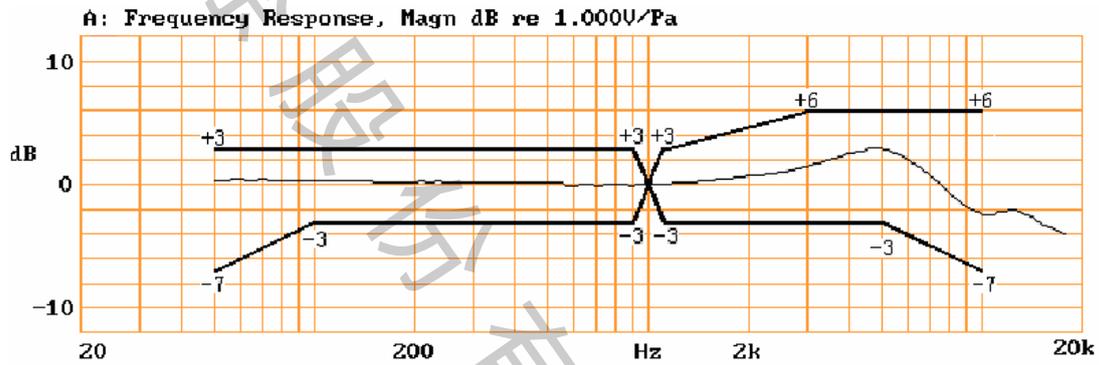
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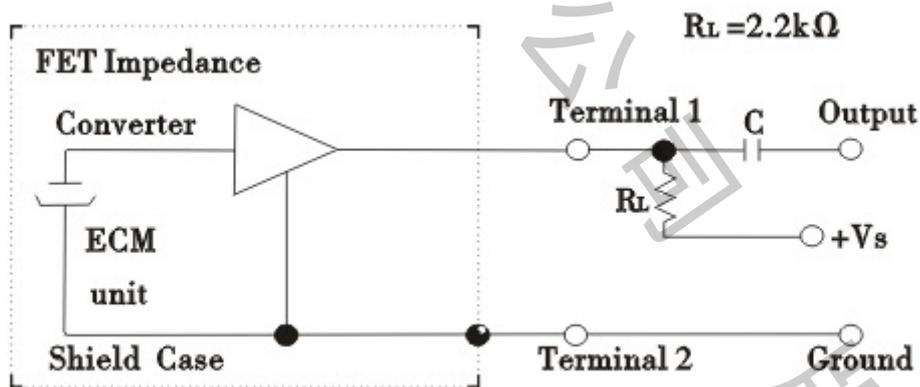
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1	Name: Omnidirectional Electret Condenser Microphone (Foil Electret Type)	
2	TYPE: HT-01294	
3	Electrical Specifications:	
3.1	Sensitivity Range	-38±3dB RL=2.2KΩ VCC=3.0V (1KHz 0dB=1V/ubar)
3.2	Impedance	Max .2.2KΩ 1KHz (RL=2.2KΩ)
3.3	Frequency	20-16000 Hz
3.4	Current Consumption	Max.0.5mA
3.5	Operation Voltage Range	1.0V-10V
3.6	Max. Sound Pressure Level	120dB S.P.L
3.7	S/N Ratio	More than 60dB
3.8	Sensitivity Reduction	3.0V-2.0V Sensitivity Variation less than 3dB

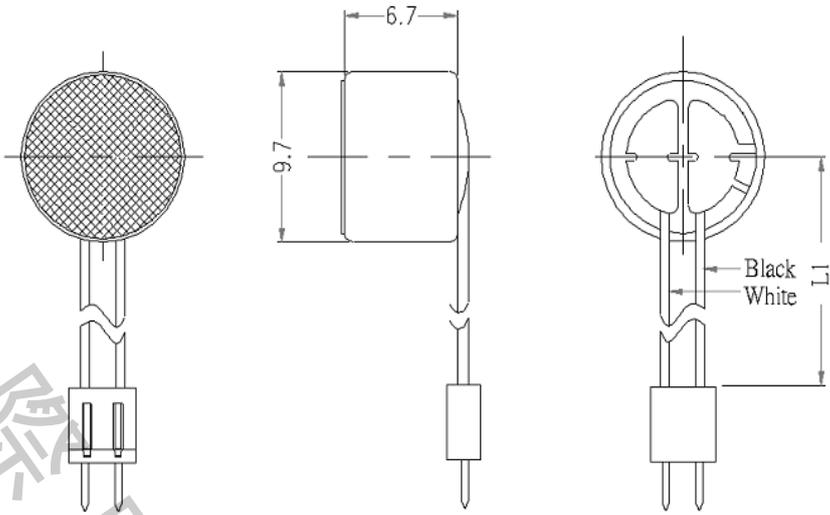
3.9 Typical Frequency Response Curve :



3.10 Schematic Diagram :



4 Mechanical Specifications :

4.1	<p>Drawing</p>  <p>Connector: 2P × 2.5mm pitch Lead wire: UL1095 AWG28 L1: 63 ± 5mm</p>	
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4.2	Weight	0.8g
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5. Reliability Tests: After any following tests, the sensitivity of the microphone unit shall not change more than ±3dB from initial value, and shall keep their initial operation and appearance.

5.1	Hi-Temp. Test	To be no interference in operation after high temperature test 70±3°C for 48 hours The sensitivity to be within +/-3dB from initial sensitivity.
5.2	Low-Temp. Test	To be no interference in operation after Low temperature test -20±3°C for 48 hours, the sensitivity to be within +/-3dB from initial sensitivity.
5.3	Isotherm & ISO-humidity Test	To be no interference in operation after storage test at temperature 40±3°C and relative humidity (93±3%) for 48 hours. The sensitivity to be within +/-3dB from initial sensitivity. the test is performed at temperature 20°C after operation for 6 hours.
5.4	Temperature Cycle Test	After exposure at +55±2°C for 1 hour, at 20±2°C for 1 hour, at -10±2°C for 1 hour, at 20±2°C for 1 hour, with 5 cycles. Change of sensitivity within +/-3dB from initial measuring should be done after 2 hours exposed to 20±2°C.
5.5	Vibration Test	To be no interference in operation after vibration of full amplitude 2mm for 30 minutes at three axis, the sensitivity to be within +/-3dB from initial sensitivity.
5.6	Dropping Test	To be no interference in operation after dropped to concrete floor each time from 1- meter height of three directions in state of packing, the sensitivity to be within +/-3dB from initial sensitivity..

6 Environmental Condition:

6.1	Storage condition	-20°C ~ +60°C R.H. less than 45% ~ 75%
6.2	Operation condition	-10°C ~ +45°C R.H. less than 85%
6.3	Arbitration condition	Temperature : 20°C ± 1°C Relative humidity : 63% ~ 67% Air pressure : 86 ~ 106 Kpa

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 $310^{\circ}\text{C} \pm 20^{\circ}\text{C}$.
7.2	Operators, the solder fixtures and the soldering irons must be statically grounded under each soldering process.

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