



HITPOINT

SPECIFICATION

PRODUCT TYPE: **PMOF-9745P-42UQ**

(RoHS)

DSND BY		
CHKD BY		
APVD BY		

光 键 股 份 有 限 公 司

HITPOINT INC.

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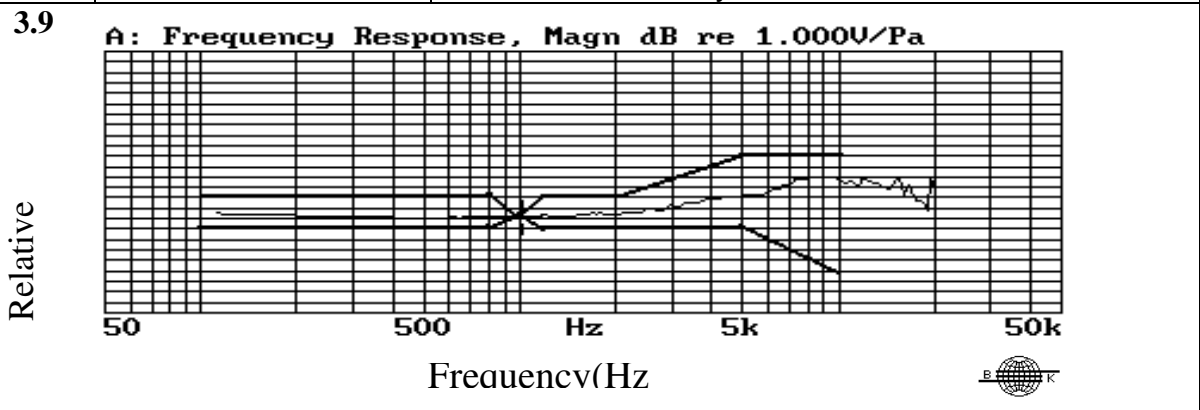
<http://www.hitpoint.com.tw/>

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

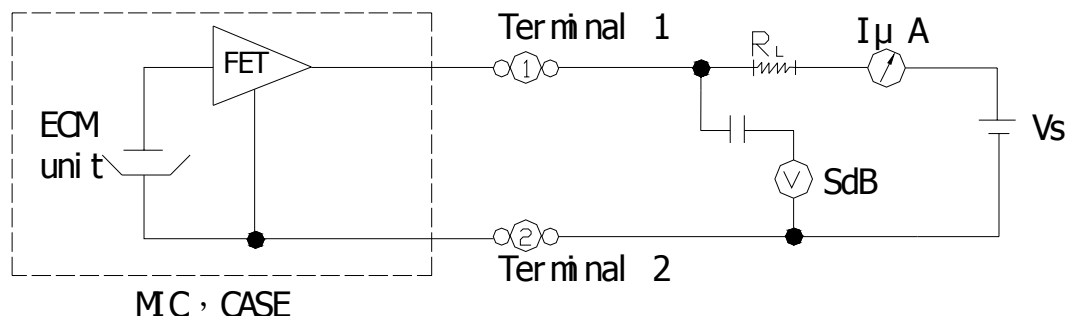
2 TYPE: PMOF-9745P-42U

3 Electrical Specifications:

3.1	Sensitivity Range	-42±3dB RL=2.2KΩ VCC=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.0.5mA
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

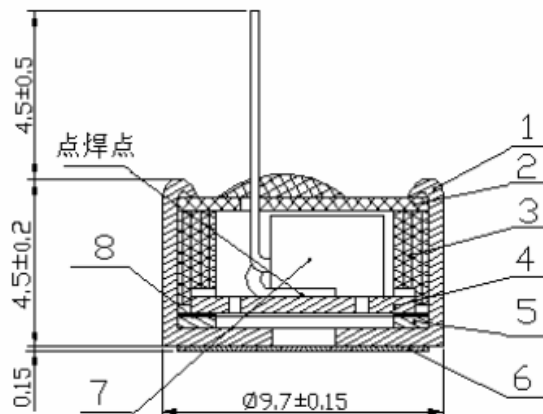


3.10 Schematic Diagram:

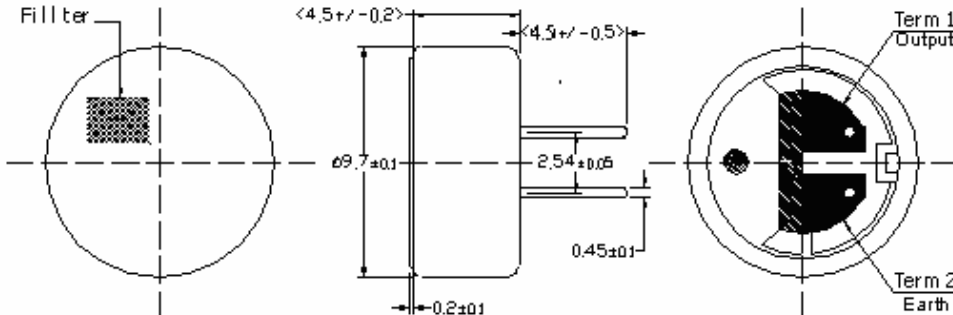


4 Mechanical Specifications:

4.1 Drawing



NO.	NAME	MATERIAL	QTY	REMARK
8	SPACER	Polyster film	1	
7	F. E. T		1	2SK596
6	FELT	Cotton dectron 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	Dimension (mm): 
	4.3	Weight 0.6g
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 5.2 5.3 5.4 5.5 5.6	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. Low-Temp. Test The microphone unit must be subjected to -25°C for 200 Hours, and expose to room temperature for 3 Hours. 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 . 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. 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. 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 $-40^\circ\text{C} \sim +70^\circ\text{C}$ R.H. less than 90%
	6.2	Operation condition $-20^\circ\text{C} \sim +60^\circ\text{C}$ R.H. less than 90%
	6.3	Arbitration condition Temperature : $20^\circ\text{C} \pm 1^\circ\text{C}$ 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 $310^\circ\text{C} \pm 20^\circ\text{C}$.
	7.2	Operators, the solder fixtures and the soldering irons must be statically grounded under each soldering process.