



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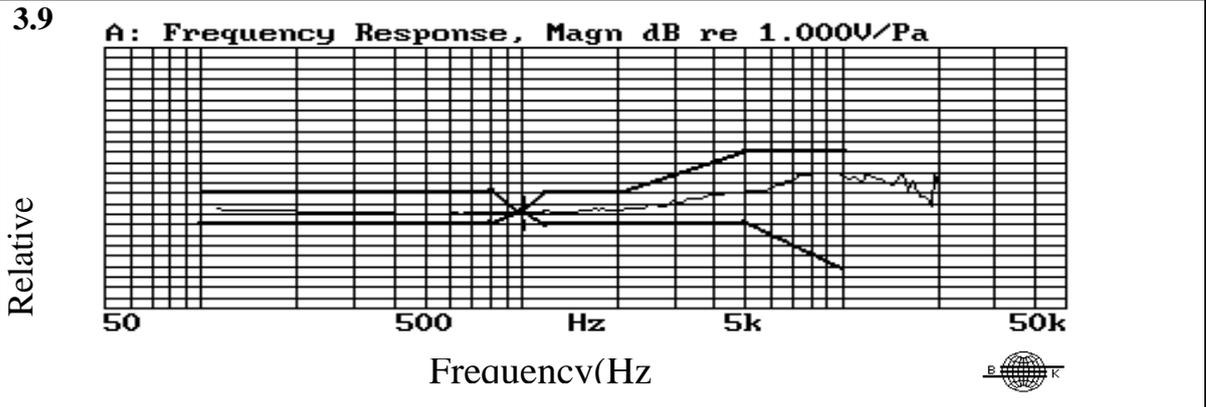
<http://www.hitpoint.com.tw/>

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

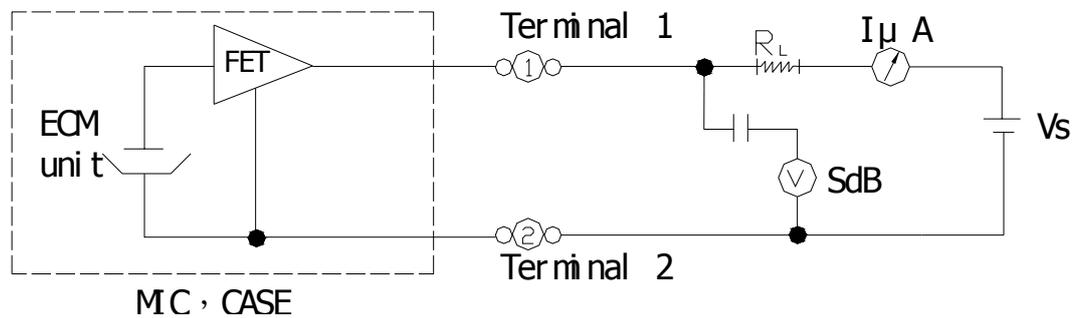
2 TYPE: PMOF-9745P-42U

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.PL
3.7	S/N Ratio	More than 60dB
3.8	Sensitivity Reduction	4.5V-3.0V Sensitivity Variation less than 3dB

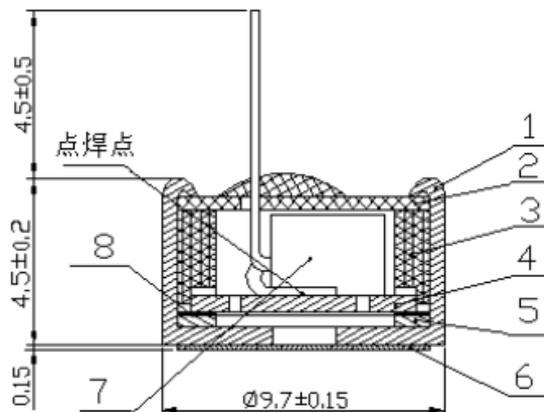


3.10 Schematic Diagram:

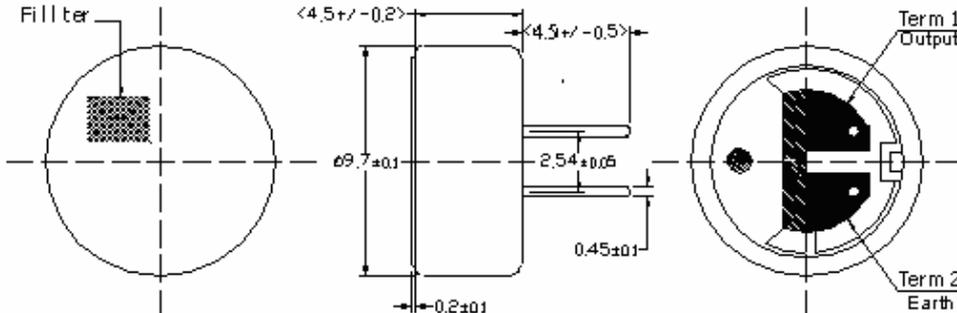


4 Mechanical Specifications:

4.1 Drawing



NO.	NAME	MATERIAL	QTY	REMARK
8	SPACER	Polyster film	1	
7	F. E. T		1	2SK596
6	FELT	Cotton decon 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	

	<b>4.2</b>	<b>Dimension (mm):</b>  	
	<b>4.3</b>	<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.			
	<b>5.1</b>	<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.
	<b>5.2</b>	<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.
	<b>5.3</b>	<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 .
	<b>5.4</b>	<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.
	<b>5.5</b>	<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.
	<b>5.6</b>	<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</b>	<b>Environmental Condition:</b>		
	<b>6.1</b>	<b>Storage condition</b>	$-40^\circ\text{C} \sim +70^\circ\text{C}$ R.H. less than 90%
	<b>6.2</b>	<b>Operation condition</b>	$-20^\circ\text{C} \sim +60^\circ\text{C}$ R.H. less than 90%
	<b>6.3</b>	<b>Arbitration condition</b>	Temperature : $20^\circ\text{C} \pm 1^\circ\text{C}$ Relative humidity: 63%~67% Air pressure : 86~106Kpa
<b>7</b>	<b>Notices:</b>		
	<b>7.1</b>	All the soldering procedures upon microphones must be completed in a metallic device, the temperature of the soldering iron must be limited as $310^\circ\text{C} \pm 20^\circ\text{C}$ .	
	<b>7.2</b>	Operators, the solder fixtures and the soldering irons must be statically grounded under each soldering process.	