



# HITPOINT

## SPECIFICATION

**PRODUCT TYPE: PMOF-9767NW-46UQ**

(RoHS)

DSND BY		
CHKD BY		
APVD BY		

光 键 股 份 有 限 公 司

**HITPOINT INC.**

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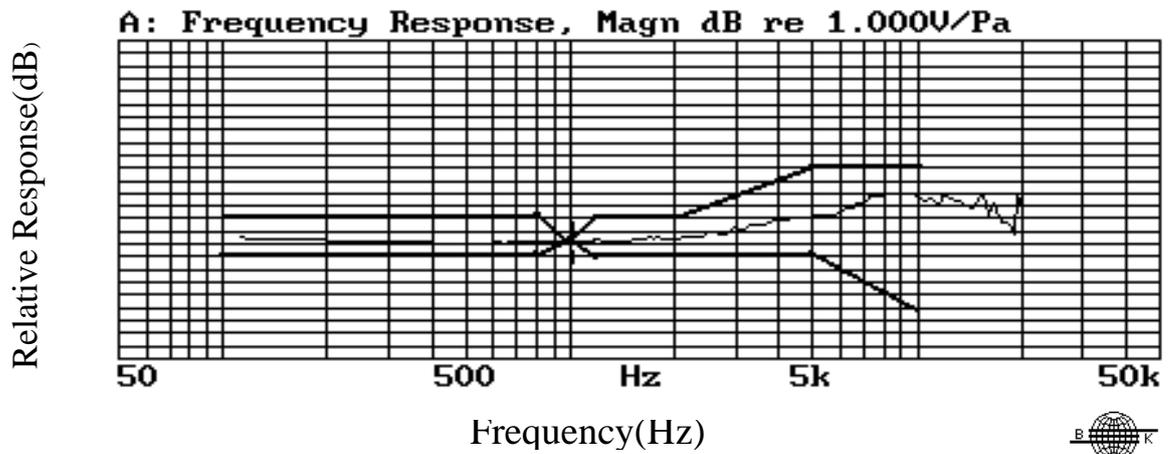
1 Name: Omnidirectional Electret Condenser Microphone (Foil Electret Type)

2 TYPE: PMOF-9767NW-46U

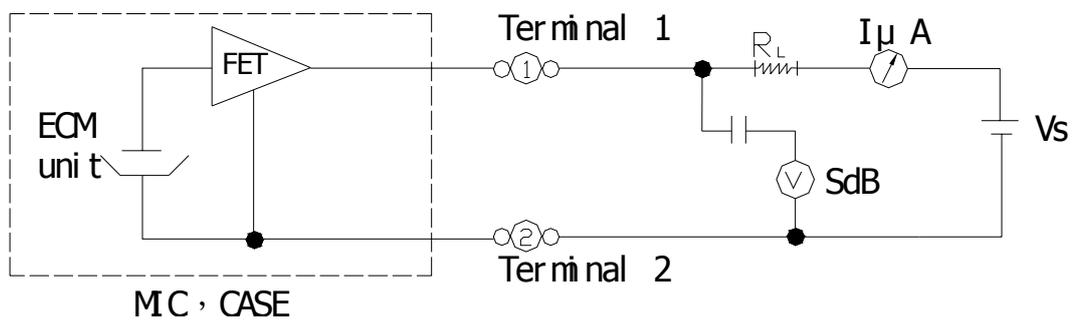
3 Electrical Specifications:

3.1	Sensitivity Range	-46±2dB RL=2.2K Ω Vs=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	1.0V-10V
3.6	Max. Sound Pressure Level	120dB S.P.L
3.7	S/N Ratio	More than 58dB
3.8	Sensitivity Reduction	4.5V-3.0V Sensitivity Variation less than 3dB

3.9 Typical Frequency Response Curve:

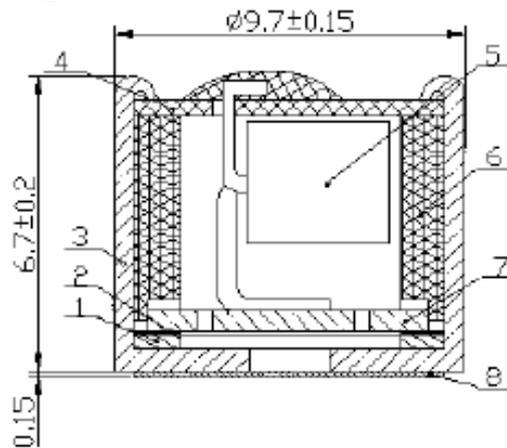


3.10 Schematic Diagram:



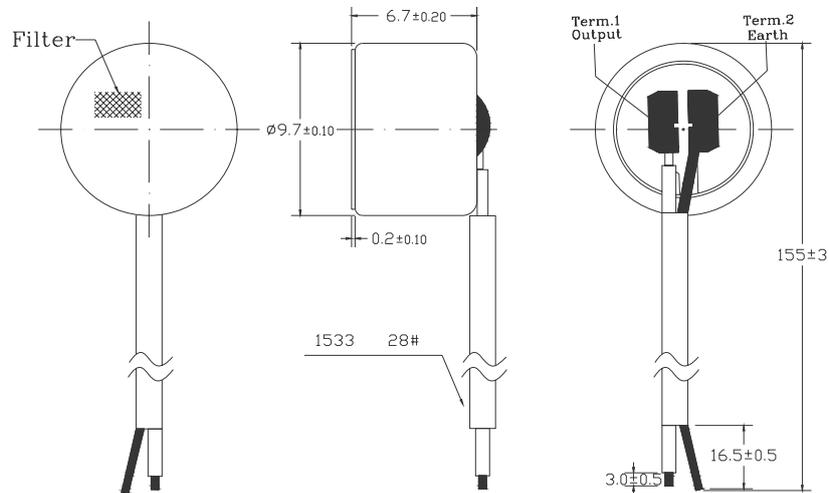
4 Mechanical Specifications:

**4.1 Drawing**



NO.	NAME	MATERIAL	QTY	REMARK
8	FELT	Cotton decon textile	1	
7	ELECTRET BOARD	H62	1	
6	INNER HOUSING	ABS	1	
5	F. E. T		1	28K596
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** 1.2g

**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.

<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.

**6 Environmental Condition:**

**6.1 Storage condition**  $-20^\circ\text{C} \sim +60^\circ\text{C}$  R.H. 45%--75%

	<b>6.2</b>	<b>Operation condition</b>	-10°C~+45°C R.H. less than 85%
	<b>6.3</b>	<b>Arbitration condition</b>	Temperature : 20°C±1°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 320°C± 20°C .	
	<b>7.2</b>	Operators, the solder fixtures and the soldering irons must be statically grounded under each soldering process.	