



# HITPOINT

## SPECIFICATION

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

(RoHS)

DSND BY		
CHKD BY		
APVD BY		

光 键 股 份 有 限 公 司

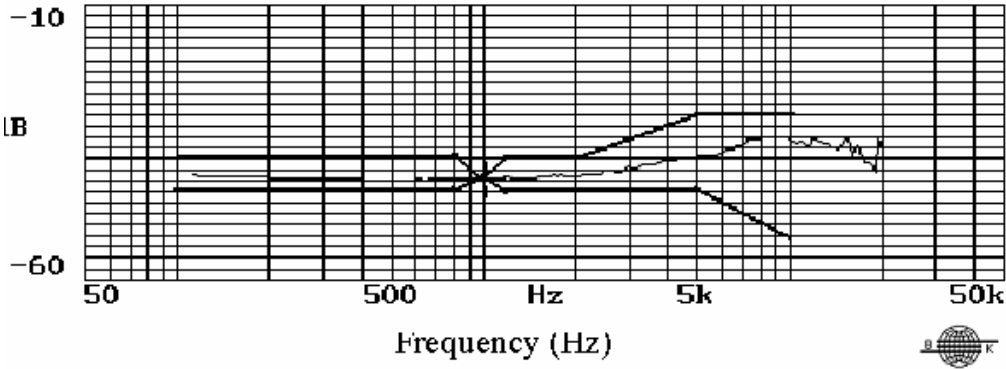
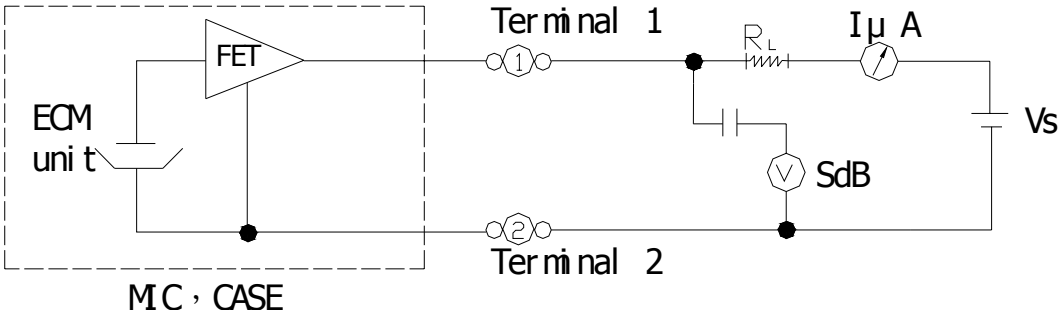
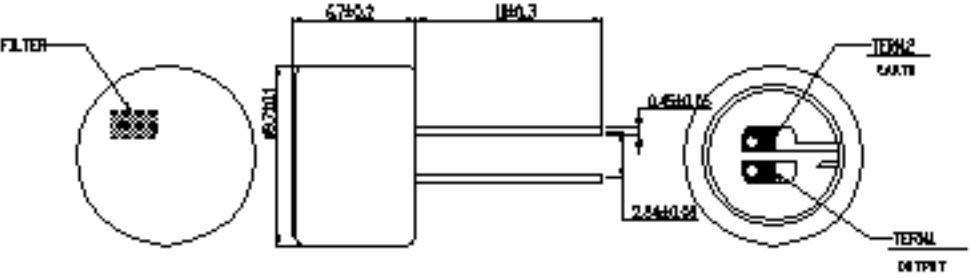
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1	<b>Name: Omnidirectional Electret Condenser Microphone (Foil Electret Type)</b>	
2	<b>TYPE: PMOF-9767NP-46U</b>	
3	<b>Electrical Specifications:</b>	
3.1	<b>Sensitivity Range</b>	$-46 \pm 2\text{dB}$ $R_L=2.2\text{K}\Omega$ $V_{CC}=4.5\text{V}$ (1KHz 0dB=1V/Pa)
3.2	<b>Impedance</b>	Max $.2.2\text{K}\Omega$ 1KHz ( $R_L=2.2\text{K}\Omega$ )
3.3	<b>Frequency</b>	20-16000 Hz
3.4	<b>Current Consumption</b>	Max.0.5mA
3.5	<b>Operation Voltage Range</b>	1.0V-10V
3.6	<b>Max. Sound Pressure Level</b>	120dB S.P.L
3.7	<b>S/N Ratio</b>	More than 58dB
3.8	<b>Sensitivity Reduction</b>	4.5V-3.0V Sensitivity Variation less than 3dB
<b>3.9 Typical Frequency Response Curve:</b>		
		
<b>3.10 Schematic Diagram:</b>		
		
4	<b>Mechanical Specifications:</b>	
4.1	<b>Dimension (mm):</b>	
		
4.2	<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 48 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 48 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 48 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 ( $+45^{\circ}\text{C}$ 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> - $20^{\circ}\text{C}$ ~ $+60^{\circ}\text{C}$ R.H. less than 45%~75%
	<b>6.2</b>	<b>Operation condition</b> - $10^{\circ}\text{C}$ ~ $+45^{\circ}\text{C}$ R.H. less than 85%
	<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.