



# HITPOINT

## SPECIFICATION

PRODUCT TYPE: **PMOF-6050NS-45UQ**

(RoHS)

DSND BY		
CHKD BY		
APVD BY		

光 键 股 份 有 限 公 司

**HITPOINT INC.**

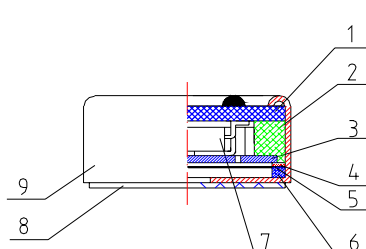
**Add:** No.4, Lane 505 ,Zhongzheng Road, Linkou Shiang, Taipei,Taiwan24445

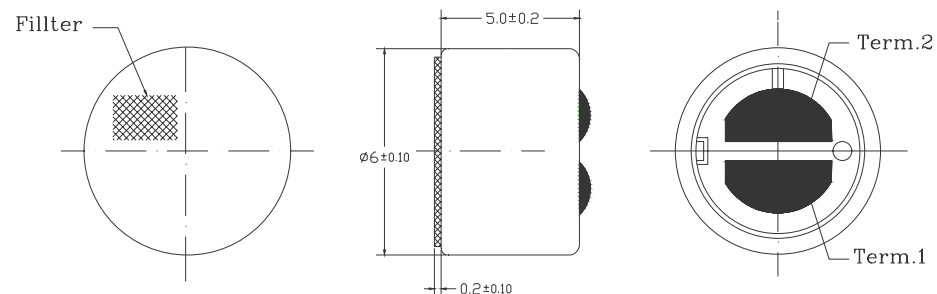
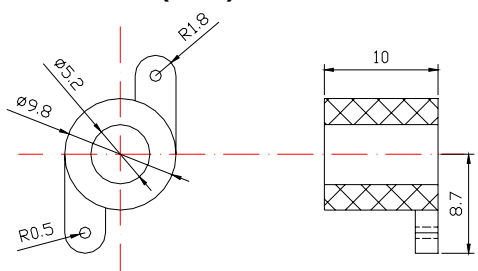
**Tel:** + 886-2-2601-3311

**FAX :** + 886-2-2601-3898

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

1	<b>Name: Omnidirectional Electret Condenser Microphone (Foil Electret Type)</b>	
2	<b>TYPE: PMOF-6050NS-45U</b>	
3	<b>Electrical Specifications:</b>	
3.1	Sensitivity Range	$-45 \pm 2\text{dB}$ $R_L=2.2\text{K}\Omega$ $V_{CC}=4.5\text{V}$ (1KHz 0dB=1V/Pa)
3.2	Impedance	Max. $2.2\text{K}\Omega$ 1KHz ( $R_L=2.2\text{K}\Omega$ )
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	<b>Typical Frequency Response Curve:</b>	
3.10	<b>Schematic Diagram:</b>	
4	<b>Mechanical Specifications:</b>	

4.1	<b>Drawing</b> 	Item	Part Name	Material	Qty	Color	Supplier
		1	P.C.B	BAKELITE EPOXY	1	GREEN	LOCAL
		2	CHAMBER	FEP	1	BLACK/GREY	LOCAL
		3	RING	BRASS	1	BRIGHT	LOCAL
		4	SPACER	POLYESTER	1	RED/GREEN	LOCAL
		5	DIAPHRAGM	FEP 46	1	BRIGHT	U.S.A
		6	RING	BRASS	1	BRIGHT	LOCAL
		7	F.E.T	2ST1109	1	BLACK	SHANGHAI
		8	SCREEN	NON-FIBREC ORD	1	BLACK	TAIWAN
		9	CASE	ALUMINUM	1	BRIGHT	LOCAL

4.2	<b>Dimension (mm):</b> 	
	<b>with the rubber(mm):</b> 	

4.3	<b>Weight</b>	0.8g
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**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	<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.
5.2	<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.
5.3	<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 .
5.4	<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°C~+60°C R.H. less than 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 310°C± 20°C .	
	<b>7.2</b>	Operators, the solder fixtures and the soldering irons must be statically grounded under each soldering process.	