



HITPOINT

SPECIFICATION

PRODUCT TYPE: PMOF-6027P-Q
(RoHS)

DSND BY		
CHKD BY		
APVD BY		

光 键 股 份 有 限 公 司

HITPOINT INC.

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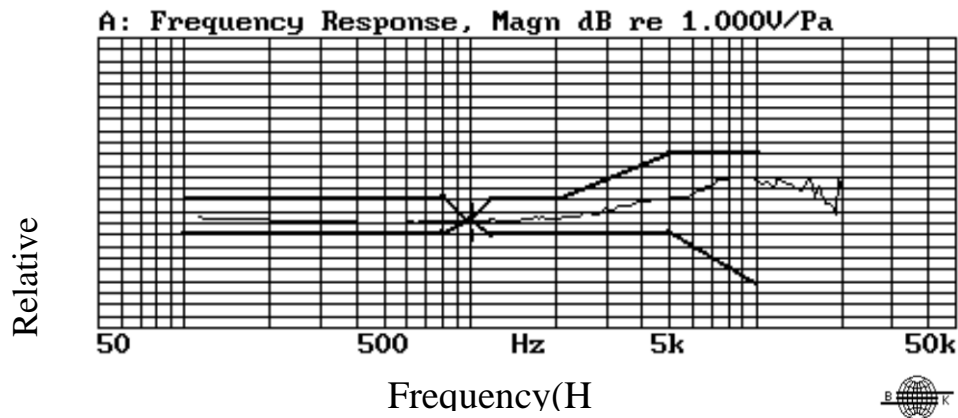
1 Name: Omnidirectional Electret Condenser Microphone (Foil Electret Type)

2 TYPE: PMOF-6027P-Q

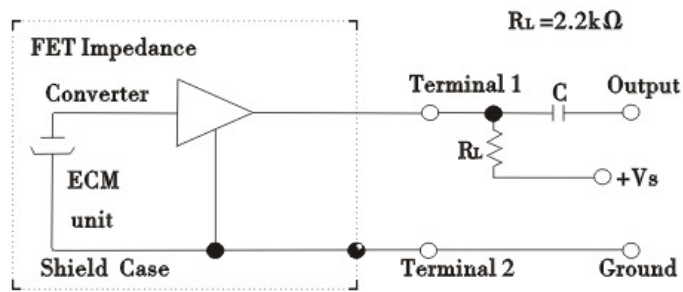
3 Electrical Specifications:

3.1	Sensitivity Range	-38/40/42/44/46/48±3dB RL=2.2K Ω VCC=2.0V (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	2.0V-1.5V Sensitivity Variation less than 3dB

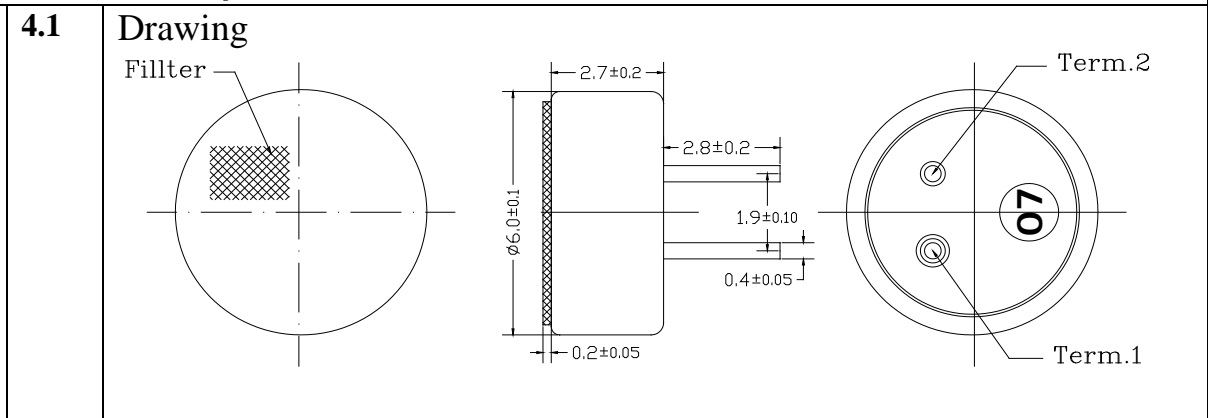
3.9 Typical Frequency Response Curve:



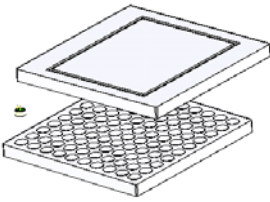
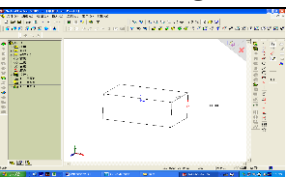
3.10 Schematic Diagram:



4 Mechanical Specifications:



4.2 Weight 0.21g

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	Hi-Temp. Test	To be no interference in operation after high temperature test $70\pm 3^{\circ}\text{C}$ for 48 hours The sensitivity to be within $\pm 3\text{dB}$ from initial sensitivity.	
	5.2	Low-Temp. Test	To be no interference in operation after Low temperature test $-20\pm 3^{\circ}\text{C}$ for 48 hours, the sensitivity to be within $\pm 3\text{dB}$ from initial sensitivity.	
	5.3	Isotherm& ISO-humidity Test	To be no interference in operation after storage test at temperature $40\pm 3^{\circ}\text{C}$ and relative humidity ($93\pm 3\%$) for 48 hours. The sensitivity to be within $\pm 3\text{dB}$ from initial sensitivity. the test is performed at temperature 20°C after operation for 6 hours.	
	5.4	Temperature Cycle Test	After exposure at $+55\pm 2^{\circ}\text{C}$ for 1 hour, at $20\pm 2^{\circ}\text{C}$ for 1 hour, at $-10\pm 2^{\circ}\text{C}$ for 1 hour, at $20\pm 2^{\circ}\text{C}$ for 1 hour, with 5 cycles. Change of sensitivity within $\pm 3\text{dB}$ from initial measuring should be done after 2 hours exposed to $20\pm 2^{\circ}\text{C}$.	
	5.5	Vibration Test	To be no interference in operation after vibration of full amplitude 2mm for 30 minutes at three axis, the sensitivity to be within $\pm 3\text{dB}$ from initial sensitivity.	
	5.6	Dropping Test	To be no interference in operation after dropped to concrete floor each time from 1- meter height of three directions in state of packing, the sensitivity to be within $\pm 3\text{dB}$ fro-initial sensitivity..	
6	Environmental Condition:			
	6.1	Storage condition	$-20^{\circ}\text{C}\sim +60^{\circ}\text{C}$ R.H. less than 45%~75%	
	6.2	Operation condition	$-10^{\circ}\text{C}\sim +45^{\circ}\text{C}$ R.H. less than 85%	
	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.		
8	Packing Specification			
	Drawing	Qty(pcs)	Size(mm)	Marking
	 Packing	100	96*96*7	QTY:100pcs
	 Middle Packing	1000	205*105*50	QTY:1000pcs