

SPECIFICATION

PRODUCT TYPE: PMOF-6027SN-42KDQ

(RoHS)

DSND BY	
CHKD BY	
APVD BY	

光键股份有限公司

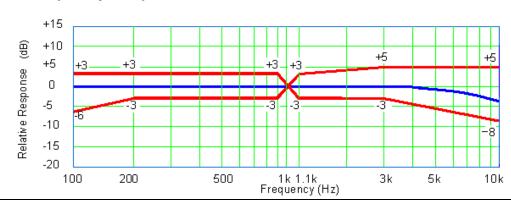
HITPOINT INC.

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

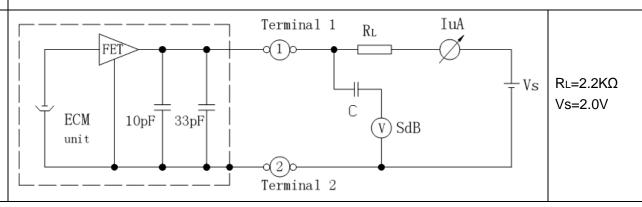
http://www.hitpoint.com.tw/

1	Name: Omnidirectional Electret Condenser Microphone		
2	TYPE: PMOF-6027SN-42KDQ		
3	Electrical Specifications:		
	3.1	Sensitivity Range	-42±3dB RL=2.2KΩ Vs=2.0V (DC) (1KHz 0dB=1V/Pa)
	3.2	Impedance	Max. 2.2KΩ 1KHz (RL=2.2KΩ)
	3.3	Frequency	100-10000Hz
	3.4	Current Consumption	Max. 500μA RL=2.2KΩ Vs=2.0V (DC)
	3.5	Operation Voltage Range	1.0V-10V (DC)
	3.6	Max. Sound Pressure Level	115dB S.P.L
	3.7	S/N Ratio	More than 58dB 1kHz,0dB=1V/Pa,A-weight
	3.8	Sensitivity Reduction	2.0V-1.5V Sensitivity Variation less than 3dB

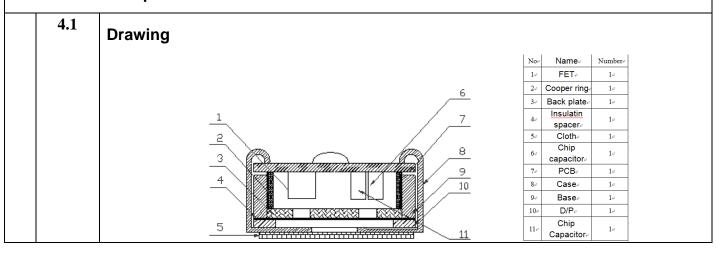
3.9 Typical Frequency Response Curve

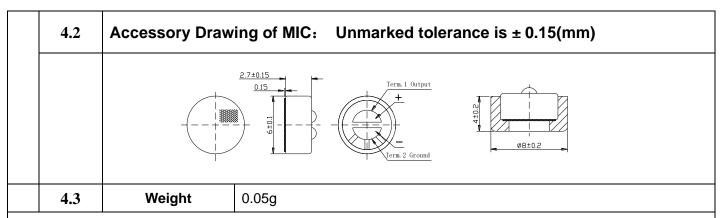


3.10 Schematic Diagram:



4 Mechanical Specifications:





5.Reliability Tests: After any following tests, the sensitivity of the microphone unit shall not change more than $\pm 3 dB$ from initial value, and shall keep their initial operation and appearance.

	5.1	Hi-Temp. Test	The microphone unit must be subjected to +70 $^{\circ}\mathrm{C}$ for 240 Hours, and expose to room
	5.2	Low-Temp. Test	temperature for 3 Hours.
			The microphone unit must be subjected to -20°C for 240 Hours, and expose to room
	5.3	Humi.&Heat Test	temperature for 3 Hours.
			The microphone unit must be subjected to +70 °C, 93% RH-for 240 Hours, and expose to
	3.3	Humi.aneat lest	room temp for 3 Hours .
	5.4	Thermal Shocking	The microphone unit must be subjected to a environment from −20°C for 30 minutes to
			the end of +70°C for 30 minutes, which shall be repeated 32 cycles and exposed to
		Test	room temperature for 3 hours .
		Vibration Test	The microphone unit must be subjected to a procedure that after vibrating for two hours
	5.5		from each of the two directions with a frequency of 10-55Hz and a 1.52mm-high
		December Total	amplitude.
	5 (The microphone unit must be subjected to a procedure that after dropping to a slippery
	5.6	Dropping Test	marble floor for 5 times from a 1.5-meter-high without package.
		Tension Test Static Electricity Destruction	The microphone unit must be subjected to a procedure that after adding a pulling
	5.7		strength of 6N to any of the microphones with wires for one minute with no any breaking.
			According to the third item of the standard of IEC61000
			1.Contact discharge
	= 0		Charge 6000v DC to the capacitor with 150pF, and discharge the output of the MIC ten
	5.8		times through the resistance of 330 Ω , then check and test it.
			2.Air discharge
			Charge 8000v DC to the capacitor with 150pF, and discharge the sound hole. of the MIC
			ten times through the resistance of 330 Ω , then check and test it.
		•	

6 Environmental Condition:

	6.1	Storage Condition	-40℃~+70℃ R.H. less than 90%
	6.2	Operation Condition	-20℃~+60℃ R.H. less than 90%

7 Notes:

- 1. Operators, the solder fixture and the soldering iron must be statically grounded under each soldering process.
- 2. The temperature of the soldering irons must be limited as 320°C±10°C . Soldering time should not exceed 2 seconds.
- 3. Always Avoid bringing pinholes on the soldering terminal during the operation to the omni-directional microphones.