

SPECIFICATION

PRODUCT TYPE: PMOF9767NP-42DQ

(RoHS)

DATE:2016.09. 22

VER .:0

DSND	
BY	
CHKD	
BY	
APVD	
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光键股份有限公司

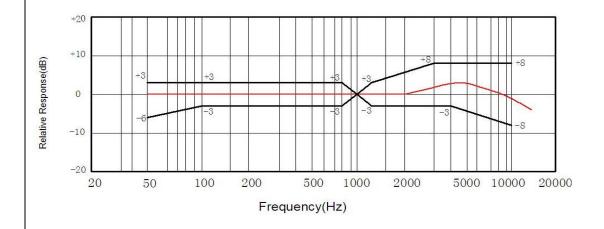
HITPOINT INC.

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

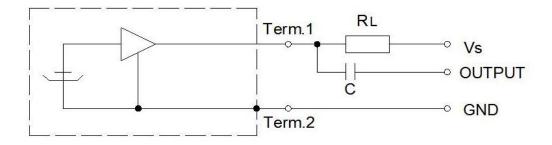
1	Name: Electret Condenser Microphone			
2	TYPE: PMOF9767NP-42DQ			
3	Electrical Specifications:			
	3.1	Sensitivity Range	-42±2dB Vs=4.5V RL=2.2KΩ (f=1KHz Pin=1Pa)	
	3.2	Directivity	Omni-directivity	
	3.3	Frequency	50-20000 Hz	
	3.4	Current Consumption	≤500uA	
	3.5	Operating Voltage Range	1.0v~10v	
	3.6	Max.Sound Pressure Level	115dB S.P.L	
	3.7	S/N Ratio	More than 58dB	
	3.8	Total Harmonic Distortion	≤3%(at 115dB SPL)	
	3.9	Sensitivity reduction	Vs from 4.5v to 3.0v max -3dB	

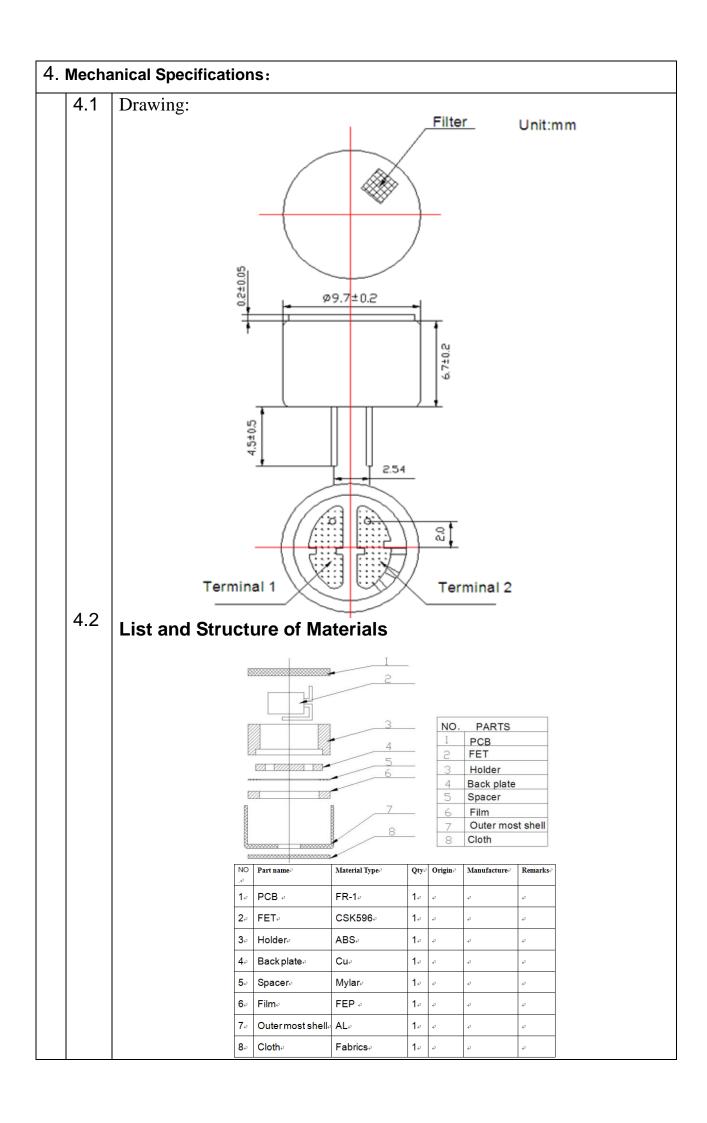
3.11Typical Frequency Response Curve:



3.12Schematic Diagram:

Vs:Source Voltage 4.5V $\,$ RL:Load Resistance 2.2K Ω





5.Re	5. Reliability Tests: All tests should be done after 2 hours of conditioning at 20°C, R. H65%, while the				
	sensitivity is to be within ±3dB from the initial sensitivity after the following				
	experiments				
	5.1	Hi-Temp. Test	+60°C for 72 hours, room temperature,2 hours		
	5.2	Low-Temp. Test	-40 for 72 hours, room temperature,2hours		
	5.3	Statical Humidity Test	+ 40°C,90~95%RH for 72 hours, room temperature,2 hours		
5.4 Temperature Cycle Test			a)-25°C,30minutes,+60°C; 30minutes,repeated 32cycles; Changeov er time10minutes room temperature,2hours		
	5.5 Vibration Test		2hours ,a frequency of 10-55Hz and a 1.52mm-high amplitude		
	5.6	Dropping Test Drop a unit unpacked onto a board of 20mm thick. from a 1.0-meter-repeated 6cycles			
	5.7	The microphone under test must be discharged between each ESD exposure without ground. (contact: ±6KV,air: ±8KV)There is no interference in operation after 10 times exposure			
	5.8	Regarding the Soldering operation	 a. Use 15~ 20W soldering iron and maintain 290°C~310°C in operation. b. Operators who work in the solder fixture and the soldering iron must be statically grounded under each soldering process. C. Soldering should be accomplished within two seconds at each terminal so as not to be overheated. d. Optimal design for heat sink pad is same as below. 		
6	Environmental Condition:				
	6.1	Storage condition $-30^{\circ}\text{C} \sim +70^{\circ}\text{C}$ R.H.			
	6.2	Operation condition	ration condition $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$ R.H.		
	1	1			

Temperature : 20°C±1°C

Relative humidity: 60%~70%

Air pressure : 86~106Kpa

Arbitration

condition

6.3