

SPECIFICATION

PRODUCT TYPE: PMOF-9745S-42UQ

(RoHS)

DSND	
BY	
CHKD	
BY	
APVD	
BY	

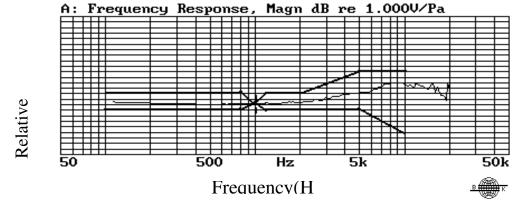
光键股份有限公司

HITPOINT INC.

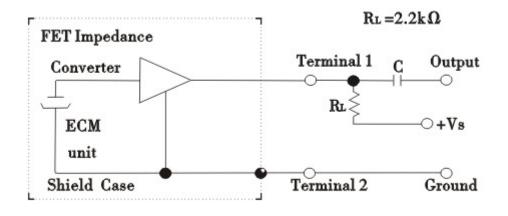
Add: No.4, Lane 505 ,Zhongzheng Road, Linkou Shiang, Taipei,Taiwan24445 **Tel:** + 886-2-2601-3311 **FAX:** + 886-2-2601-3898

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

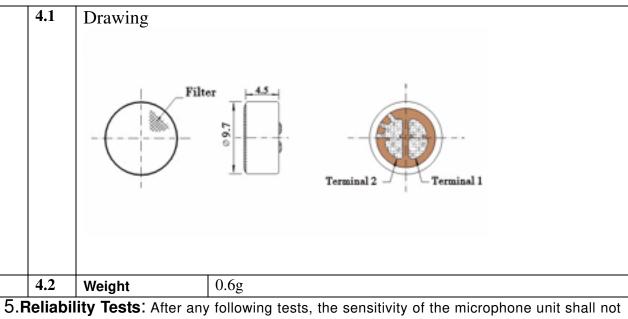
2	Name: Omnidirectional Electret Condenser Microphone (Foil Electret Type)		
	TYPE: PMOF-9745S-42U		
3	Electrical Specifications:		
	3.1	Sensitivity Range	-42 ± 3 dB RL=2.2K Ω VCC=4.5V (1KHz 0dB=1V/Pa)
	3.2	Impedance	Max .2.2K Ω 1KHz (RL=2.2K Ω)
	3.3	Frequency	20-16000 Hz
	3.4	Current Consumption	Max.0.5mA
	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 60dB
	3.8	Sensitivity Reduction	4.5V-3.0V 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 $\pm 3 \text{dB}$ from initial value, and shall keep their initial operation and appearance.

operation and appearance.				
	5.1	Hi-Temp. Test	To be no interference in operation after high temperature test 70+/-3°C	
			for 48 hours The sensitivity to be within +/-3dB from initial sensitivity.	
	5.2 Low-Temp. Test		To be no interference in operation after Low temperature test -20+/-3 $^{\circ}$ C	
	3.2	Low-remp. rest	for 48 hours, the sensitivity to be within +/-3dB from initial sensitivity.	
			To be no interference in operation after storage test at temperature	
	5.3	Isotherm& ISO-humidity Test	40+/-3°C and relative humidity (93±3%) for 48 hours. The sensitivity	
			to be within +/-3dB 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+/-2°C for 1 hour, at 20+/-2°C for 1 hour, at	
			-10+/-2°C for 1 hour, at 20+/-2°C for 1 hour, with 5 cycles. Change	
	5.4		of sensitivity within +/-3dB from initial measuring should be done after	
			2 hours exposed to 20+/-2°C.	
		Vibration Test	To be no interference in operation after vibration	
	5.5		of full amplitude 2mmfor 30 minutes at three axis, the se	
			nsitivity to be within +/-3dB from initial sensitivity.	
		Dropping Test	To be no interference in operation after dropped to concrete floor each	
	5.6		time from 1- meter height of three directions in state of packing, the	
			sensitivity to be within +/-3dB fro-initial sensitivity	
6	Envir			
			nmental Condition:	
	6.1	Storage condition	-20°C~+60°C R.H. less than 45%~75%	
	6.2	Operation condition	-10°C~+45°C R.H. less than 85%	
	A 4	Arbitration condition	Temperature : 20°C±1°C	
			Relative humidity: 63%~67%	
			Air pressure : 86~106Kpa	
7	Notic	ces:		
,		All the soldering	procedures upon microphones must be completed in a	
		e temperature of the soldering iron must be limited as 310		
		℃+20℃		

Operators, the solder fixtures and the soldering irons must be statically

grounded under each soldering process.

7.2