HITPOINT

SPECIFICATION

PRODUCT TYPE: PMOF-9745S-42UQ

(RoHS)

DSND BY		
CHKD BY		
APVD BY		

光 键 股 份 有 限 公 司

HITPOINT INC.

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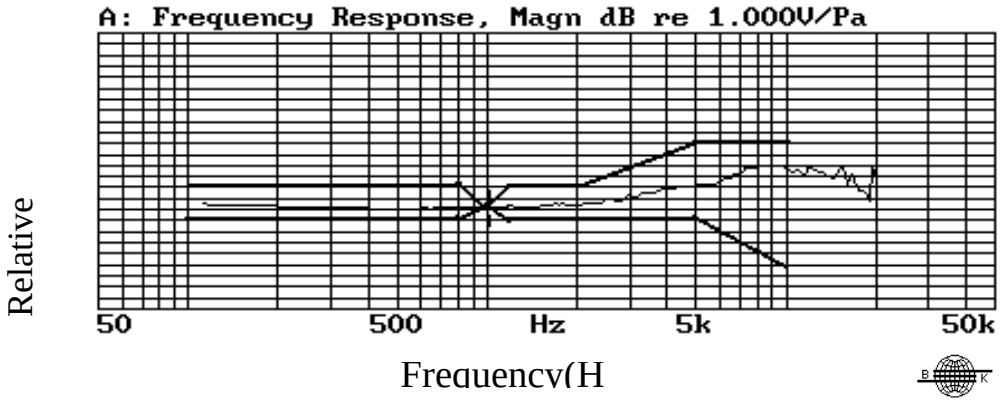
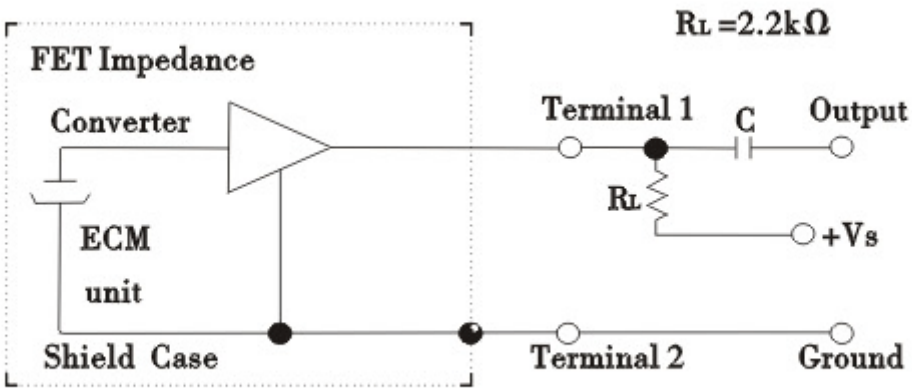
1	**Name：Omnidirectional Electret Condenser Microphone (Foil Electret Type)**		
2	**TYPE：PMOF-9745S-42U**		
3	**Electrical Specifications:**		
	3.1	**Sensitivity Range**	-42±3dB RL=2.2KΩ VCC=4.5V (1KHz 0dB=1V/Pa)
	3.2	**Impedance**	Max .2.2KΩ 1KHz (RL=2.2KΩ)
	3.3	**Frequency**	20-16000 Hz
	3.4	**Current 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

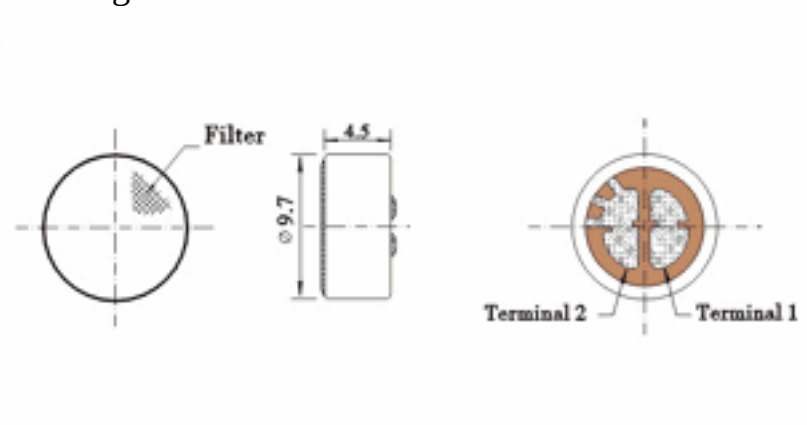
3.9 Typical Frequency Response Curve：



3.10 Schematic Diagram：



4	**Mechanical Specifications：**

	4.1	Drawing 	
	4.2	**Weight**	0.6g
5.**Reliability Tests**: After any following tests, the sensitivity of the microphone unit shall not change more than ±3dB 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+/-3℃ 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℃ for 48 hours, the sensitivity to be within +/-3dB from initial sensitivity.
	5.3	Isotherm& ISO-humidity Test	To be no interference in operation after storage test at temperature 40+/-3℃ and relative humidity (93±3%) for 48 hours. The sensitivity to be within +/-3dB from initial sensitivity. the test is performed at temperature 20℃ after operation for 6 hours.
	5.4	Temperature Cycle Test	After exposure at +55+/-2℃ for 1 hour, at 20+/-2℃ for 1 hour, at -10+/-2℃ for 1 hour, at 20+/-2℃ for 1 hour, with 5 cycles. Change of sensitivity within +/-3dB from initial measuring should be done after 2 hours exposed to 20+/-2℃.
	5.5	**Vibration Test**	To be no interference in operation after vibration of full amplitude 2mmfor 30 minutes at three axis, the sensitivity to be within +/-3dB 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 +/-3dB fro-initial sensitivity..
6	**Environmental Condition**:		
	6.1	**Storage condition**	-20℃~+60℃ R.H. less than 45%~75%
	6.2	**Operation condition**	-10℃~+45℃ R.H. less than 85%
	6.3	**Arbitration condition**	Temperature ：20℃±1℃ 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℃± 20℃ .	
	7.2	Operators, the solder fixtures and the soldering irons must be statically grounded under each soldering process.	