



HITPOINT

SPECIFICATION

PRODUCT TYPE: PMOF-6027SN-42UQ

(RoHS)

DSND BY		
CHKD BY		
APVD BY		

光 键 股 份 有 限 公 司

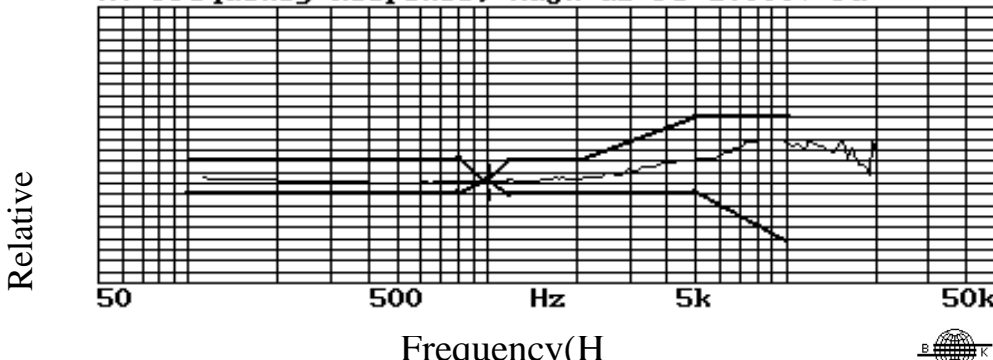
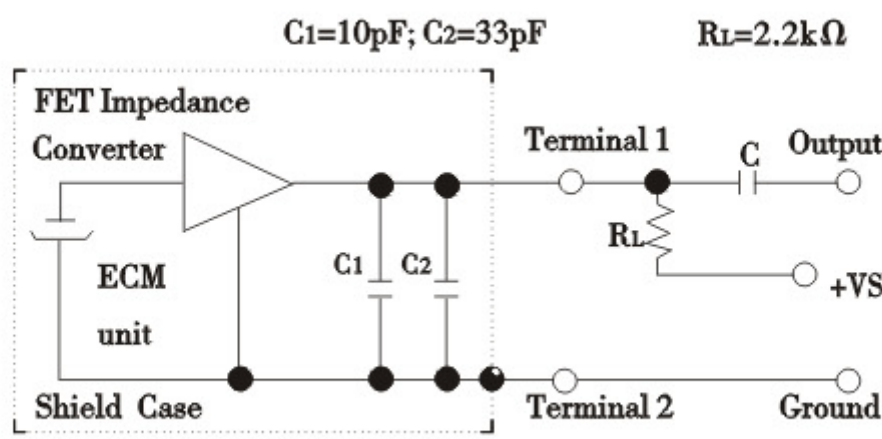
HITPOINT INC.

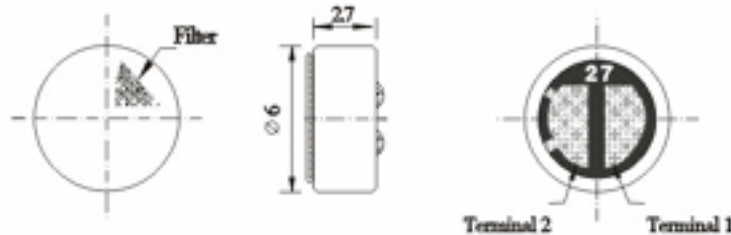
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1	Name: Omnidirectional Electret Condenser Microphone (Foil Electret Type)	
2	TYPE: PMOF-6027SN-42U	
3	Electrical Specifications:	
3.1	Sensitivity Range	$-42 \pm 3\text{dB}$ $R_L = 2.2\text{K}\Omega$ $V_{CC} = 2.0\text{V}$ (1KHz 0dB=1V/Pa)
3.2	Impedance	Max $2.2\text{K}\Omega$ 1KHz ($R_L = 2.2\text{K}\Omega$)
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: A: Frequency Response, Magn dB re 1.000V/Pa 	
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 2mm for 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 from 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.	