

MIKPOJ62

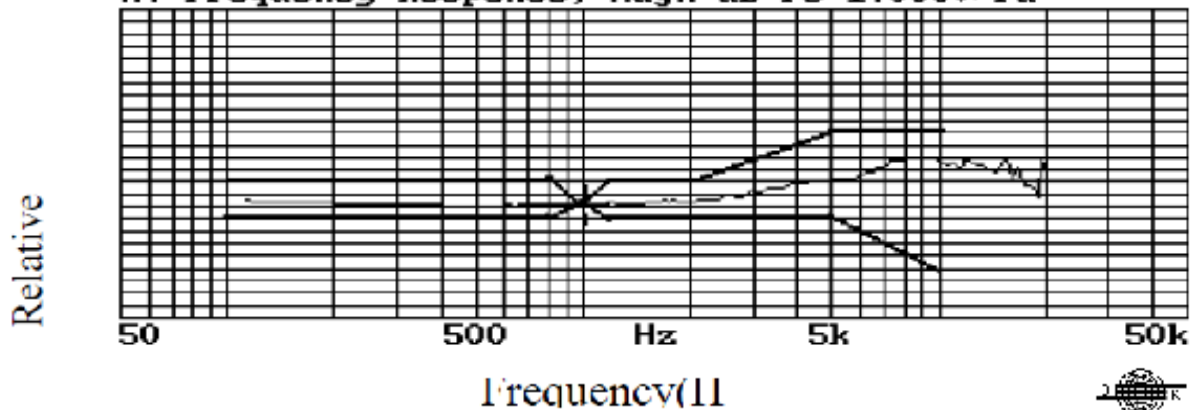
(RoHS)

1	Name: Omnidirectional Electret Condenser Microphone (Foil Electret Type)	
2	TYPE: MIKPOJ62	
3	Electrical Specifications:	

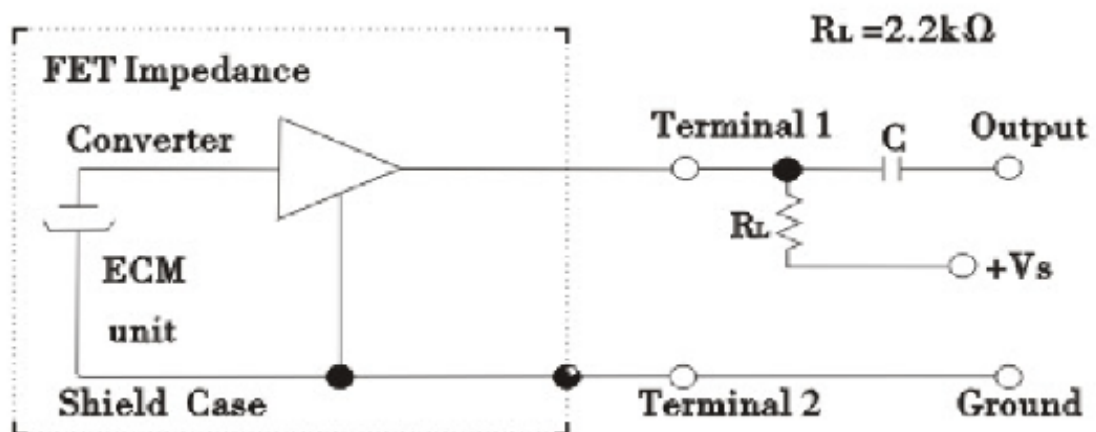
3.1	Sensitivity Range	$-42 \pm 3 \text{dB}$ $R_L = 2.2 \text{K} \Omega$ $V_{CC} = 4.5 \text{V}$ (1KHz $0 \text{dB} = 1 \text{V/Pa}$)
3.2	Impedance	Max. $2.2 \text{K} \Omega$ 1KHz ($R_L = 2.2 \text{K} \Omega$)
3.3	Frequency	20 16000 Hz
3.4	Current Consumption	Max. 0.5mA
3.5	Operation Voltage Range	1.0V-10V
3.6	Max. Sound Pressure Level	120dB S.P.L
3.7	S/N Ratio	More than 60dB
3.8	Sensitivity Reduction	4.5V-3.0V Sensitivity Variation less than 3dB

3.9 Typical Frequency Response Curve:

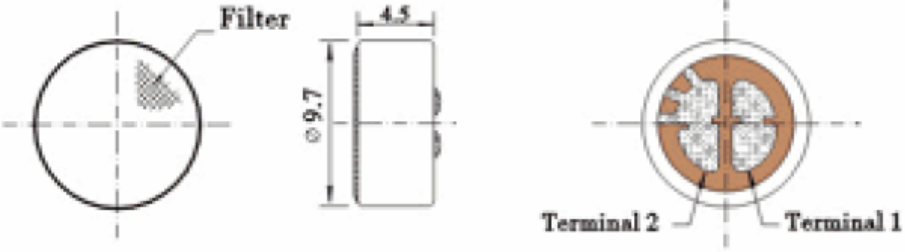
A: Frequency Response, Magn dB re 1.000V/Pa



3.10 Schematic Diagram:



4 Mechanical Specifications:

4.1	<p>Drawing</p> 	
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4.2	Weight	0.6g
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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.

5.1	Hi-Temp. Test	To be no interference in operation after high temperature test $70\pm 3^\circ\text{C}$ for 48 hours The sensitivity to be within $\pm 3\text{dB}$ from initial sensitivity.
5.2	Low-Temp. Test	To be no interference in operation after Low temperature test $-20\pm 3^\circ\text{C}$ for 48 hours, the sensitivity to be within $\pm 3\text{dB}$ from initial sensitivity.
5.3	Isotherm& ISO-humidity Test	To be no interference in operation after storage test at temperature $40\pm 3^\circ\text{C}$ and relative humidity $(93\pm 3\%)$ for 48 hours. The sensitivity to be within $\pm 3\text{dB}$ from initial sensitivity. the test is performed at temperature 20°C after operation for 6 hours.
5.4	Temperature Cycle Test	After exposure at $+55\pm 2^\circ\text{C}$ for 1 hour, at $20\pm 2^\circ\text{C}$ for 1 hour, at $-10\pm 2^\circ\text{C}$ for 1 hour, at $20\pm 2^\circ\text{C}$ for 1 hour, with 5 cycles. Change of sensitivity within $\pm 3\text{dB}$ from initial measuring should be done after 2 hours exposed to $20\pm 2^\circ\text{C}$.
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 $\pm 3\text{dB}$ 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 $\pm 3\text{dB}$ from initial sensitivity..

6	Environmental Condition:	
6.1	Storage condition	$-20^\circ\text{C}\sim +60^\circ\text{C}$ R.H. less than 45%~75%
6.2	Operation condition	$-10^\circ\text{C}\sim +45^\circ\text{C}$ R.H. less than 85%
6.3	Arbitration condition	Temperature : $20^\circ\text{C}\pm 1^\circ\text{C}$ 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 $310^\circ\text{C}\pm 20^\circ\text{C}$.	
7.2	Operators, the solder fixtures and the soldering irons must be statically grounded under each soldering process.	