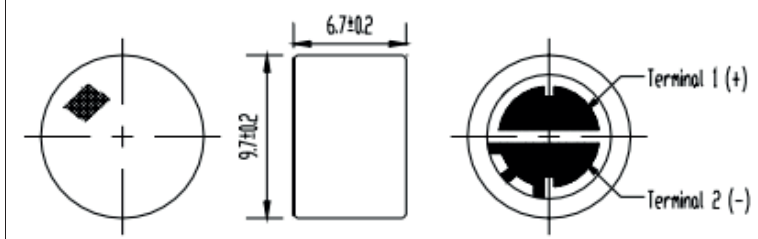


1	Name : Omni-directional Condenser Microphone (Foil Electret Type)	
2		
3	Electrical Specifications:	
3.1	Sensitivity Range	-60±3dB $V_{ss}=4.5V$ $R_L=2.2K\Omega$ (0dB=1V/uBar (-40±3dB at 0 dB = 1V/ Pa)
3.2	Impedance	Max. 2.2K Ω
3.3	Frequency	50-20000 Hz
3.4	Power consumption	Max. 500 μ A
3.5	Operating 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	Voltage characteristic reduction	Less than 3dB from 2V to 1.1V
3.9	Frequency Response	
3.10	Schematic Diagram:	
	Operating voltage range : 1.0V~10V	
4.	Mechanical Specifications:	

4.2	<p>Dimension (mm):</p> 		
4.3	<table border="1"> <tr> <td>Weight</td> <td>0.75g</td> </tr> </table>	Weight	0.75g
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<p>5. Reliability Tests:</p>			
5.1	<table border="1"> <tr> <td>Hi-Temp. Test</td> <td>After exposure at $70 \pm 2^\circ\text{C}$ for 48 hours. The sensitivity should be with ± 3 dB from initial value. (The measurement should be done after 3 hours at conditioning $25 \pm 2^\circ\text{C}$.)</td> </tr> </table>	Hi-Temp. Test	After exposure at $70 \pm 2^\circ\text{C}$ for 48 hours. The sensitivity should be with ± 3 dB from initial value. (The measurement should be done after 3 hours at conditioning $25 \pm 2^\circ\text{C}$.)
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5.2	<table border="1"> <tr> <td>Low-Temp. Test</td> <td>After exposure at $-30 \pm 2^\circ\text{C}$ for 48 hours. The sensitivity should be with ± 3 dB from initial value. (The measurement should be done after 3 hours, at conditioning $25 \pm 2^\circ\text{C}$.)</td> </tr> </table>	Low-Temp. Test	After exposure at $-30 \pm 2^\circ\text{C}$ for 48 hours. The sensitivity should be with ± 3 dB from initial value. (The measurement should be done after 3 hours, at conditioning $25 \pm 2^\circ\text{C}$.)
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5.3	<table border="1"> <tr> <td>Humidity test</td> <td>After exposure at $40 \pm 2^\circ\text{C}$ and 90%~95% humidity for 48 hours. The sensitivity should be with ± 3 dB from initial value. (The measurement should be done after 3 hours at conditioning $25 \pm 2^\circ\text{C}$.)</td> </tr> </table>	Humidity test	After exposure at $40 \pm 2^\circ\text{C}$ and 90%~95% humidity for 48 hours. The sensitivity should be with ± 3 dB from initial value. (The measurement should be done after 3 hours at conditioning $25 \pm 2^\circ\text{C}$.)
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	5.4	Temperature cycle test	After exposure at -20 ± 2 °C for 2 hours, at 25 ± 2 °C for 2 hours, at 50 ± 2 °C for 2 hours, 5 cycles. The sensitivity should be with ± 3 dB from initial value. (The measurement should be done after 3 hours at conditioning 25 ± 2 °C.)
	5.5	Vibration Test	After vibrations with 10Hz~55Hz, full amplitude 2mm each 3 minutes for 30 minutes at three axes. The sensitivity should be within ± 3 dB form initial value.
	5.6	Dropping Test	After drop form 1 meter height to concrete floor, each 5 face for 5 times with packing. The sensitivity should be with ± 3 dB from initial value.
6	Mechanical requirements :		
	6.1	Storage condition	$-30^{\circ}\text{C} \sim +70^{\circ}\text{C}$ R.H.
	6.2	Operation condition	$-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$ R.H.
	6.3	Soldering heat shock	After soldering heat shock at 260 ± 5 °C for 3 ± 1 seconds. The microphone should be without damage.
	6.4	Terminal strength	After applied a 1 Kg force on terminal for 1 minute. The microphone should be without damage.