



SPECIFICATION

PRODUCT TYPE: **750CM010**

DSND BY		
CHKD BY		
APVD BY		

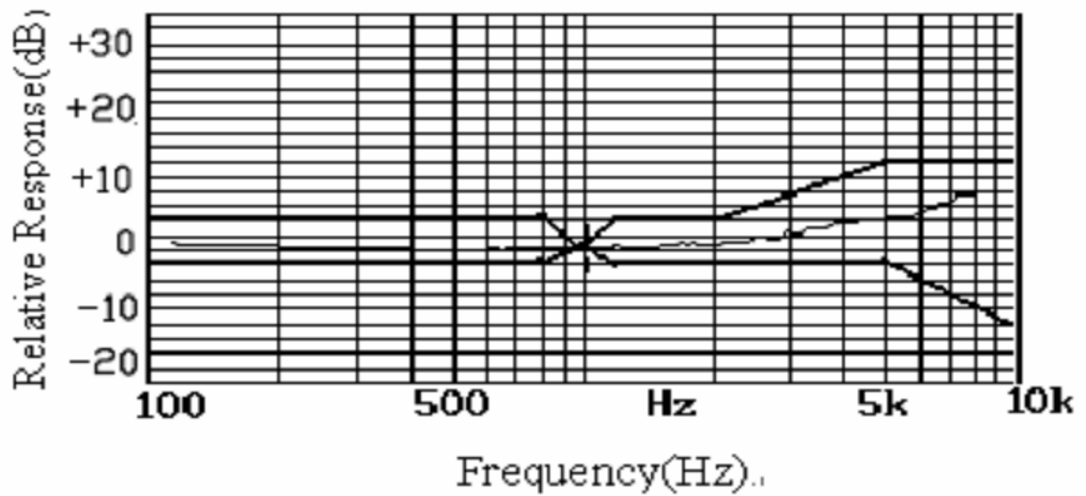
1 Name: Omnidirectional Electret Condenser Microphone (Foil Electret Type)

2 TYPE: 750CM010

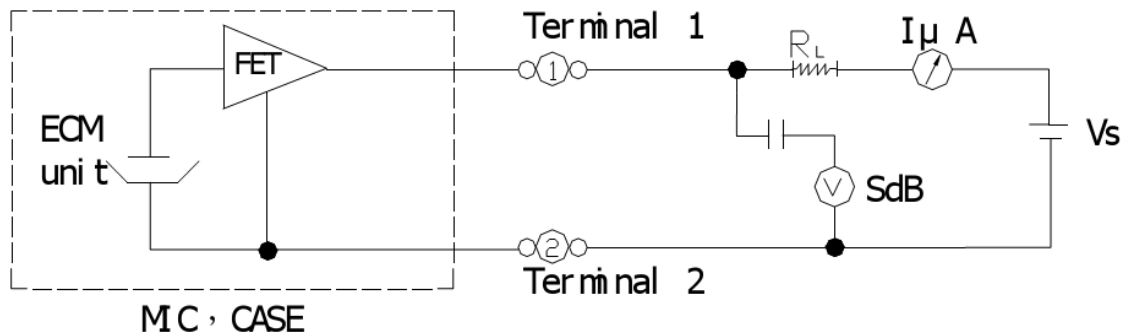
3 Electrical Specifications:

3.1	Sensitivity Range	-40±2dB RL=2.2KΩ Vs=4.5V (DC) (1KHz 0dB=1V/Pa)
3.2	Impedance	Max .2.2KΩ 1KHz (RL=2.2KΩ)
3.3	Frequency	100-16000 Hz
3.4	Current Consumption	Max.0.5mA RL=2.2KΩ Vs=4.5V (DC)
3.5	Operation Voltage Range	1.0V-10V
3.6	Max. Sound Pressure Level	115dB S.P.L
3.7	S/N Ratio	More than 58dB 1kHz,0dB=1V/Pa,A-weight
3.8	Sensitivity Reduction	4.5V-1.5V Sensitivity Variation less than 3dB

3.9 Typical Frequency Response Curve:

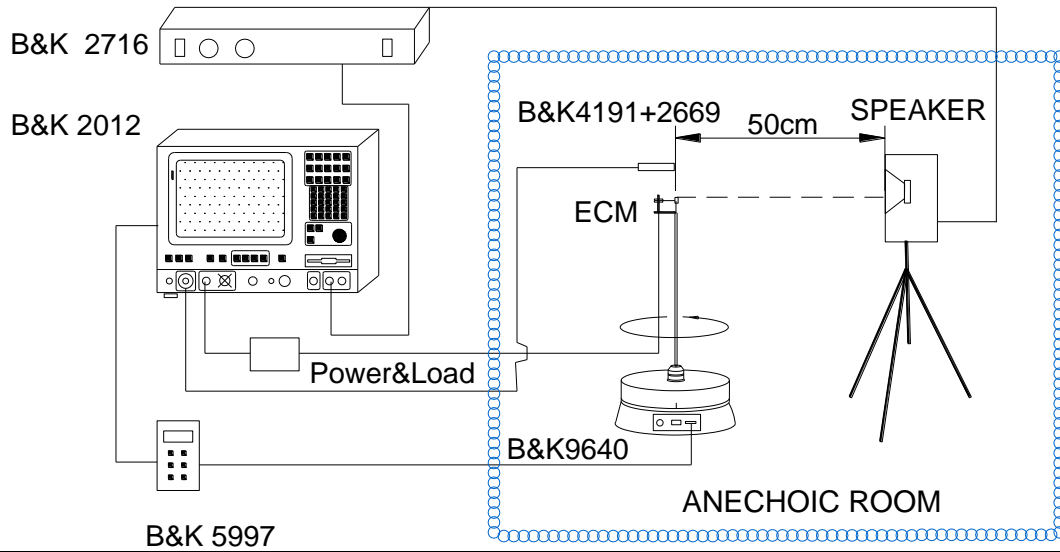


3.10 Schematic Diagram:

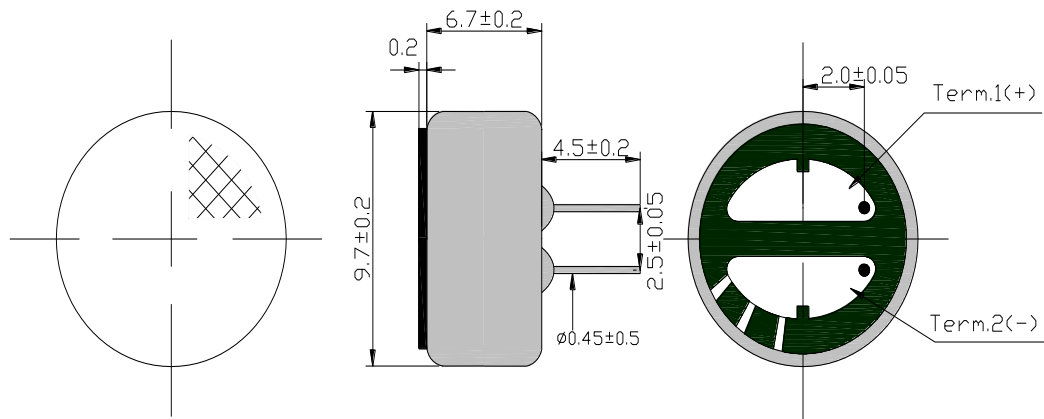


RL=2.2KΩ
Vs=4.5V

4 Test setup Drawing: :



4.2 Dimension (mm):

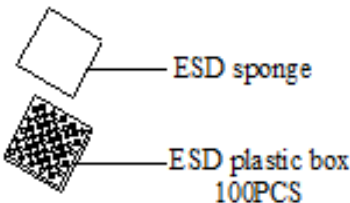


4.3 Weight 0.05g

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	The microphone unit must be subjected to $+70^{\circ}\text{C}$ for 240 Hours, and expose to room temperature for 3 Hours.
5.2	Low-Temp. Test	The microphone unit must be subjected to -20°C for 240 Hours, and expose to room temperature for 3 Hours.
5.3	Humi.&Heat Test	The microphone unit must be subjected to $+70^{\circ}\text{C}$, 93% RH-for 240 Hours, and expose to room temp for 3 Hours .
5.4	Thermal Shocking Test	The microphone unit must be subjected to a environment from -20°C for 30 minutes to the end of $+70^{\circ}\text{C}$ for 30 minutes, which shall be repeated 32 cycles and exposed to room temperature for 3 hours .
5.5	Vibration Test	The microphone unit must be subjected to a procedure that after vibrating for two hours from each of the two directions with a frequency of 10-55Hz and a 1.52mm-high amplitude.

	5.6	Dropping Test	The microphone unit must be subjected to a procedure that after dropping to a slippery marble floor for 5 times from a 1.5-meter-high without package.		
	5.7	Tension Test	The microphone unit must be subjected to a procedure that after adding a pulling strength of 6N to any of the microphones with wires for one minute with no any breaking.		
	5.8	Static Electricity Destruction	<p>According to the third item of the standard of IEC61000</p> <p>1.Contact discharge Charge 6000v DC to the capacitor with 150pF, and discharge the output of the MIC ten times through the resistance of 330Ω, then check and test it.</p> <p>2.Air discharge Charge 8000v DC to the capacitor with 150pF, and discharge the sound hole. of the MIC ten times through the resistance of 330Ω, then check and test it.</p>		
6	Environmental Condition:				
	6.1	Storage Condition	-40℃~+70℃ R.H. less than 90%		
	6.2	Operation Condition	-20℃~+60℃ R.H. less than 90%		
7	Notes:				
	7.1	Operators, the solder fixture and the soldering iron must be statically grounded under each soldering process.			
	7.2	The temperature of the soldering irons must be limited as 320℃ ± 10℃ . Soldering time should not exceed 2 seconds.			
	7.3	Always Avoid bringing pinholes on the soldering terminal during the operation to the omni-directional microphones.			
8	Packing Specification:				
		Drawing	Q'ty(pcs)	Size(mm)	Marking
	Packing	 <p>ESD sponge</p> <p>ESD plastic box 100PCS</p>	100	100*100*7	QTY: 100pcs