

SPECIFICATION

PRODUCT TYPE: OF9767P-2A303

Engineering No.:

Customer Material Code:

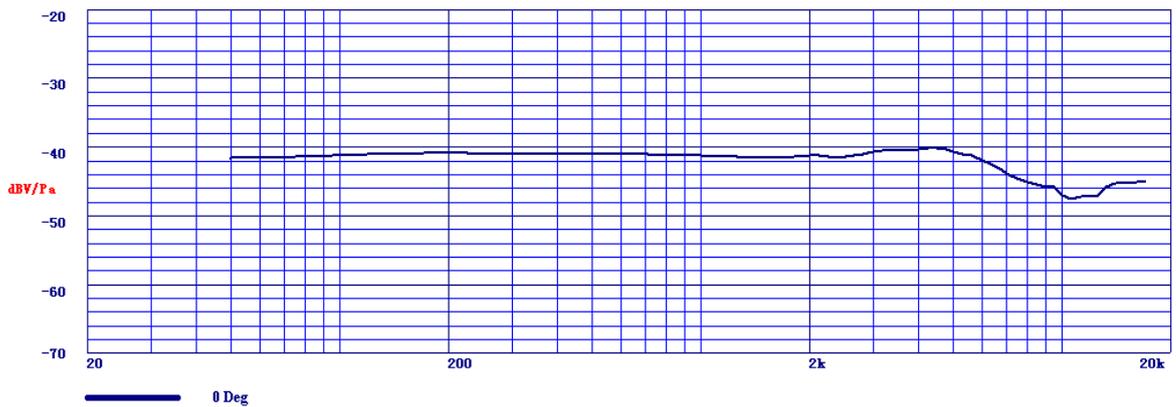
Customer Type:

DSND BY		
CHKD BY		
APRVD BY		

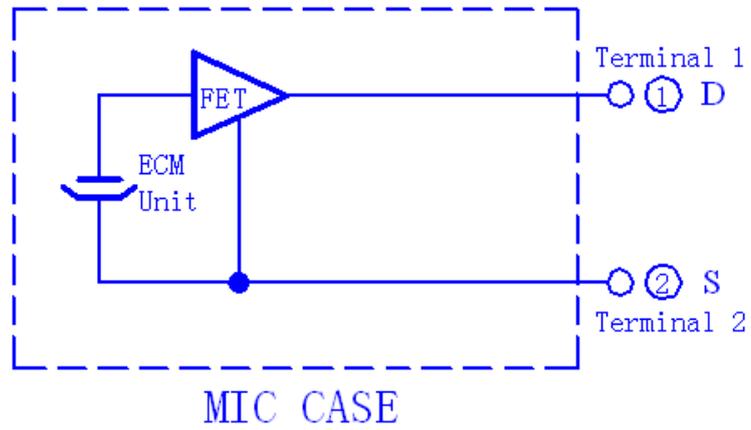
1	Name: Omnidirectional Electret Condenser Microphone (Foil Electret Type)	
2	TYPE: OF9767P-2A303	
3	Electrical Specifications:	

3.1	Sensitivity Range	$-30 \pm 3\text{dB}$ $R_L=2.2\text{K}\Omega$ $V_s=6\text{V}$ (1KHz 0dB=1V/Pa)
3.2	Impedance	Max. $1.5\text{K}\Omega$ 1KHz ($R_L=1.5\text{K}\Omega$)
3.3	Frequency	50-16000Hz
3.4	Current Consumption	Max.0.5mA $R_L=1.5\text{K}\Omega$ $V_s=4.5\text{V}$
3.5	Operation Voltage Range	1.0V-10V(DC)
3.6	Max. Sound Pressure Level	More than 110dB S.P.L (1KHz, THD<3%)
3.7	S/N Ratio	More than 60dB (1KHz 0dB=1V/Pa, A Weighted)
3.8	Sensitivity Reduction	4.5V-3.0V Sensitivity Variation less than 3dB

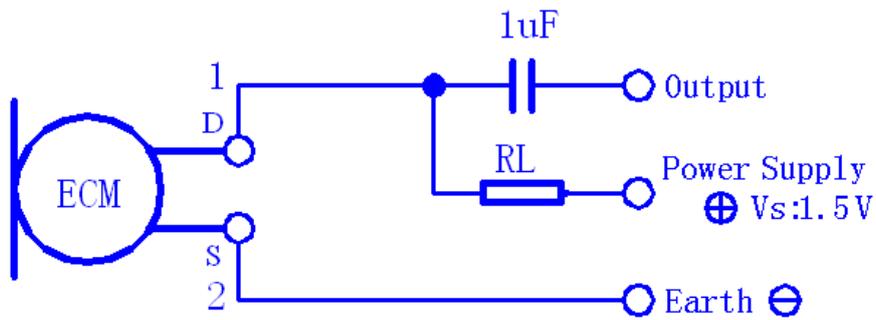
3.9 Typical Frequency Response Curve: B&K2012 50cm



3.10 Microphone Circuit Diagram:

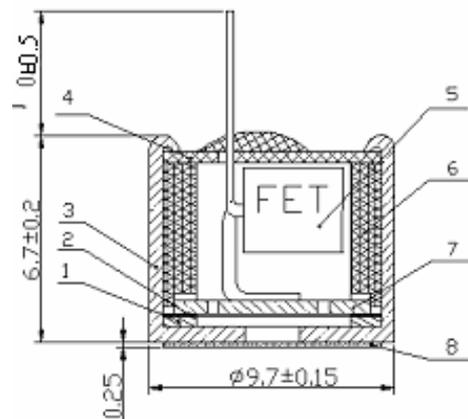


3.11 Schematic Measuring Diagram:

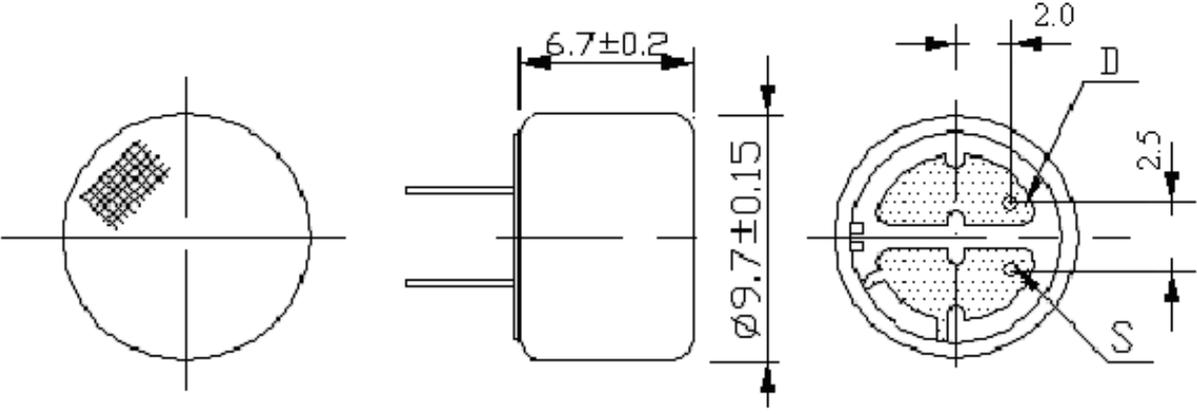


4 Mechanical Specifications:

4.1 Drawing



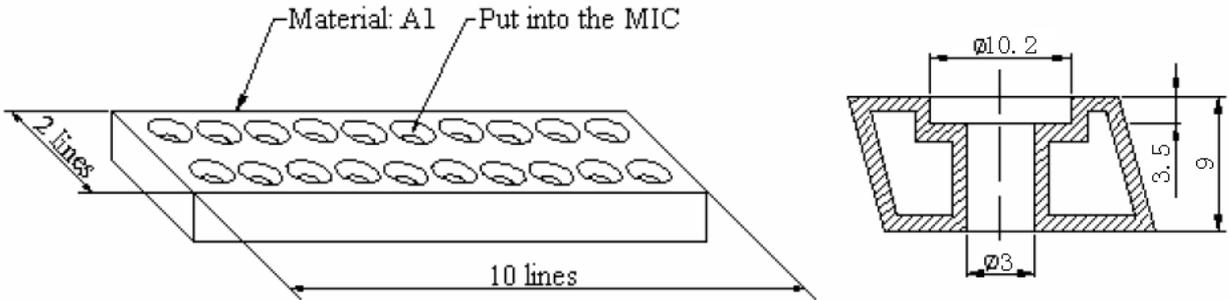
8	FELT	1	
7	ELECTRET BOARD	1	
6	INNER HOUSING	1	
5	F. E. T	1	
4	P. C. B	1	
3	CASE	1	
2	SPACER	1	
1	POLARIZED DIAPHRAGM	1	

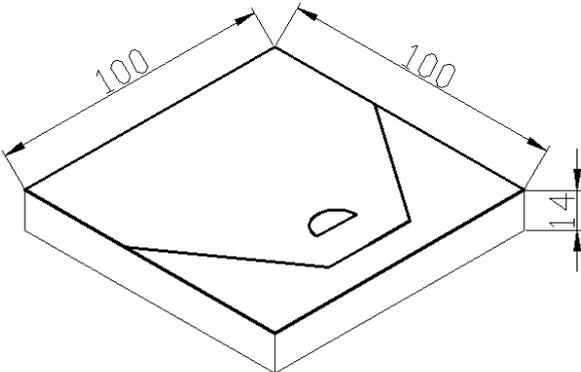
4.2	Dimension (mm): 	
4.3	Weight	0.8g
4.4	Mechanical Intensity	To be no interference in operation after pulled the terminals with 1.0Kg weight for 1 minute.

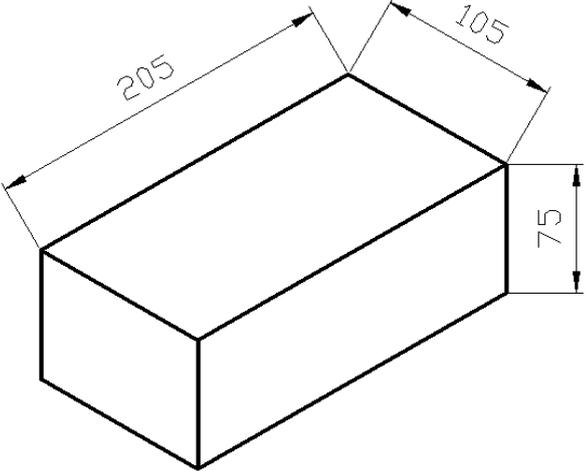
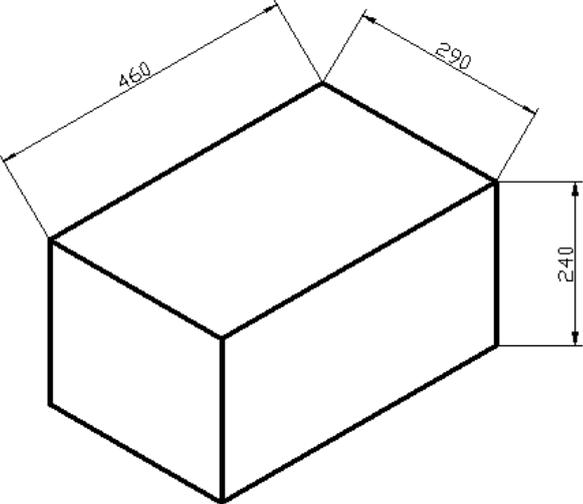
PAGE 4/5

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 200 Hours, and expose to room temperature for 3 Hours.
5.2	Low-Temp. Test	The microphone unit must be subjected to -25°C for 200 Hours, and expose to room temperature for 3 Hours.
5.3	Humi.&Heat Test	The microphone unit must be subjected to $+60^{\circ}\text{C}$, 90% RH-for 200 Hours, and expose to room temp for 3 Hours .
5.4	Humidity Shocking Test	The microphone unit must be subjected to following conditions ($+50^{\circ}\text{C}$ 1H-room temp 1H; -10°C 1H-room temp 1H) at 5 cycle, and expose to room temp 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-meter-high without package.
5.7	ESD Test	The microphone under test must be discharged between each ESD exposure (contact : $\pm 4\text{KV}$, air: $\pm 4\text{KV}$) There is no interference in operation after 10 times exposure.
6	Environmental Condition:	
6.1	Storage condition	$-40^{\circ}\text{C}\sim+70^{\circ}\text{C}$ R.H. less than 90%
6.2	Operation condition	$-40^{\circ}\text{C}\sim+110^{\circ}\text{C}$ R.H. less than 90%

6.3	Arbitration condition	Temperature : 20°C±1°C Relative humidity: 63%~67% Air pressure : 86~106Kpa
7 Notices:		
7.1	Always Avoid bringing pinholes on the soldering terminal during the operation to the omi-directional microphones.	
7.2	Operators, the solder fixtures and the soldering irons must be statically grounded under each soldering process.	
7.3	<p>All the soldering procedures upon microphones must be completed in a metallic device, the temperature of the soldering irons must be limited as 320°C±10°C. Soldering time should not exceed 2 Seconds.</p> 	

8 Packing Specification:				
Packing	Drawing(Unit: mm) 	Qty (pcs.)	Material	Marking
		100	Paper	

<p>Middle Box</p>	 <p>A 3D perspective drawing of a rectangular box. The top-left edge is labeled 205, the top-right edge is labeled 105, and the right vertical edge is labeled 75.</p>	<p>10×100</p>	<p>Paper</p>	
<p>Outer Box</p>	 <p>A 3D perspective drawing of a rectangular box. The top-left edge is labeled 460, the top-right edge is labeled 290, and the right vertical edge is labeled 240.</p>	<p>20×1000</p>	<p>Paper</p>	<p>Particular for Customer's P.O</p>