



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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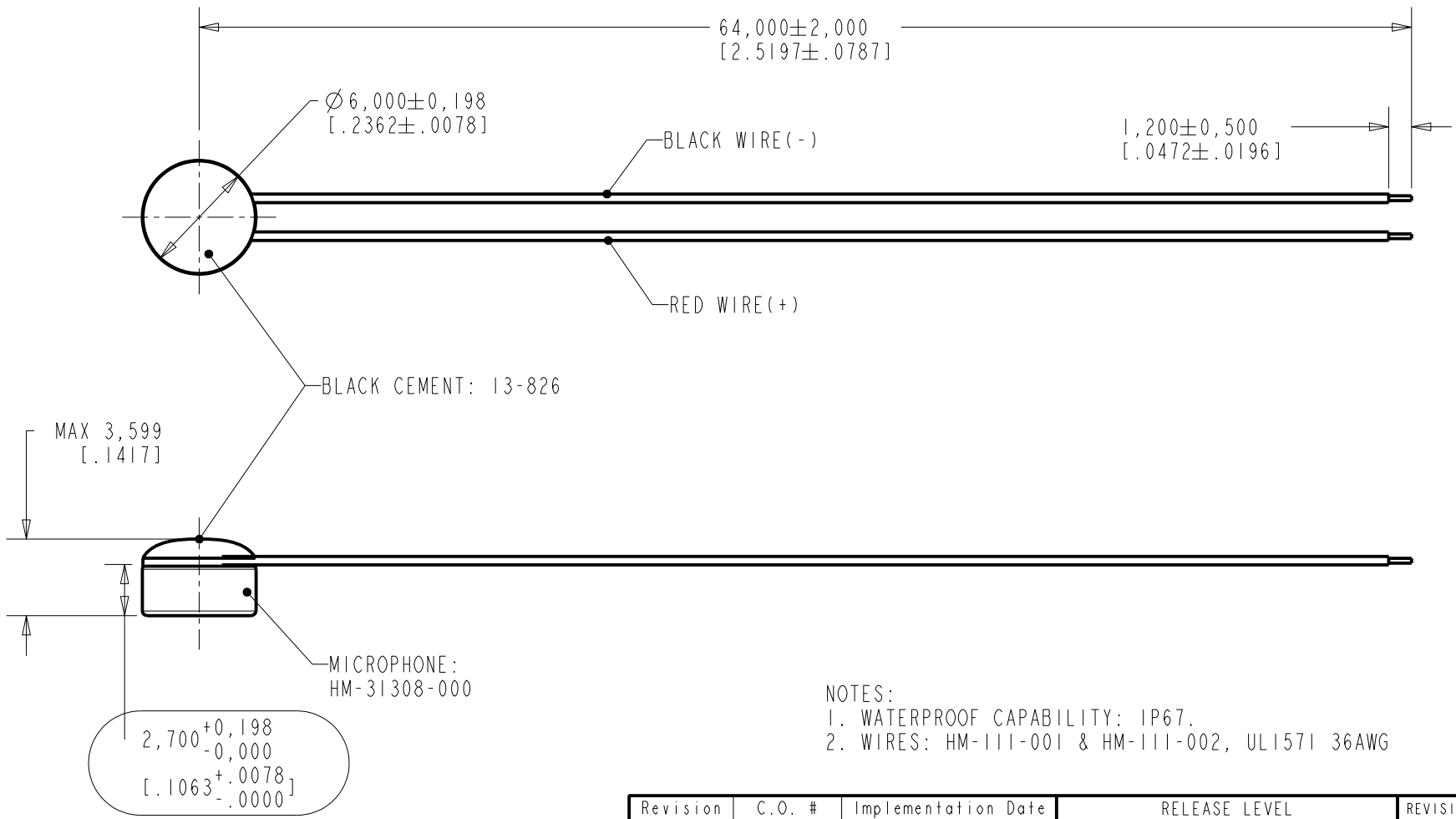
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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



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**HM-31308-P113**  
SHT 1.1



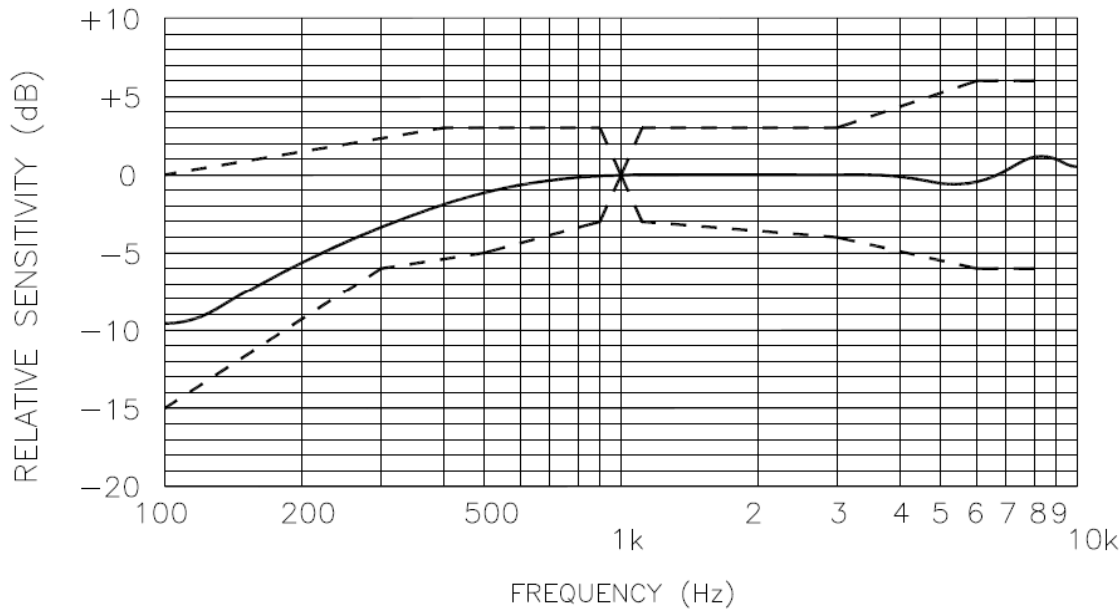
- NOTES:  
1. WATERPROOF CAPABILITY: IP67.  
2. WIRES: HM-111-001 & HM-111-002, UL1571 36AWG

DIMENSIONS IN MILLIMETERS [INCHES]

**KNOWLES ACOUSTICS**  
ITASCA, ILLINOIS U.S.A.

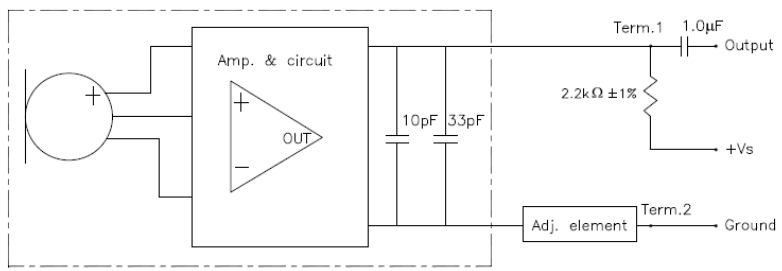
Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			<b>Active</b>	<b>A</b>
A	C40100791	11-24-11		
SCALE: <b>3:1</b>				
DO NOT SCALE DRAWING			DR. BY	DATE
TITLE: <b>MICROPHONE ASSEMBLY</b>			OO	11-24-11
			HM-31308-P113	
OUTLINE DRAWING			GJP	11-28-11
			APP. BY	DATE
			GJP	11-28-11
			SHT 1.1	

**HM-31308-P113**  
 SHT 2.1



- NOTES:
1. SENSITIVITY:  $-32 \pm 3\text{dB re } 1.0\text{V/Pa(N/m}^2\text{)}$  AT 1kHz  $22 \pm 5^\circ\text{C}$ .
  2. STANDARD VOLTAGE: 3.0V.
  3. CURRENT DRAIN: 0.5mA MAX.
  4. S/N RATIO: GREATER THAN OR EQUAL TO 62dB.
  5. IMPEDANCE: LESS THAN  $0.5\text{k}\Omega$  (1kHz).
  6. RANGE OF OPERATING VOLTAGE: 2.5V TO 5.5V.
  7. MAXIMUM INPUT SOUND PRESSURE LEVEL: 100dB.
  8. SENSITIVITY REDUTION: WITHIN -3dB AT 1.5V.
  9. GRADE THE UNITS BASE ON 1kHz SENSITIVITY AND PACKING:
 

GARDE	GARDE A	GARDE B	GARDE C
SENSITIVITY	-29~-31dB	-31~-33dB	-33~-35dB



Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
A	C40100791	11-24-11	<b>Active</b>	<b>A</b>

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SCALE: <b>4:1</b>	DR. BY DATE
DO NOT SCALE DRAWING	OO 11-24-11
TITLE: <b>MICROPHONE ASSEMBLY</b>	CK. BY DATE
<b>HM-31308-P113</b>	GJP 11-28-11
OUTLINE DRAWING	APP. BY DATE
<b>SHT 2.1</b>	GJP 11-28-11