



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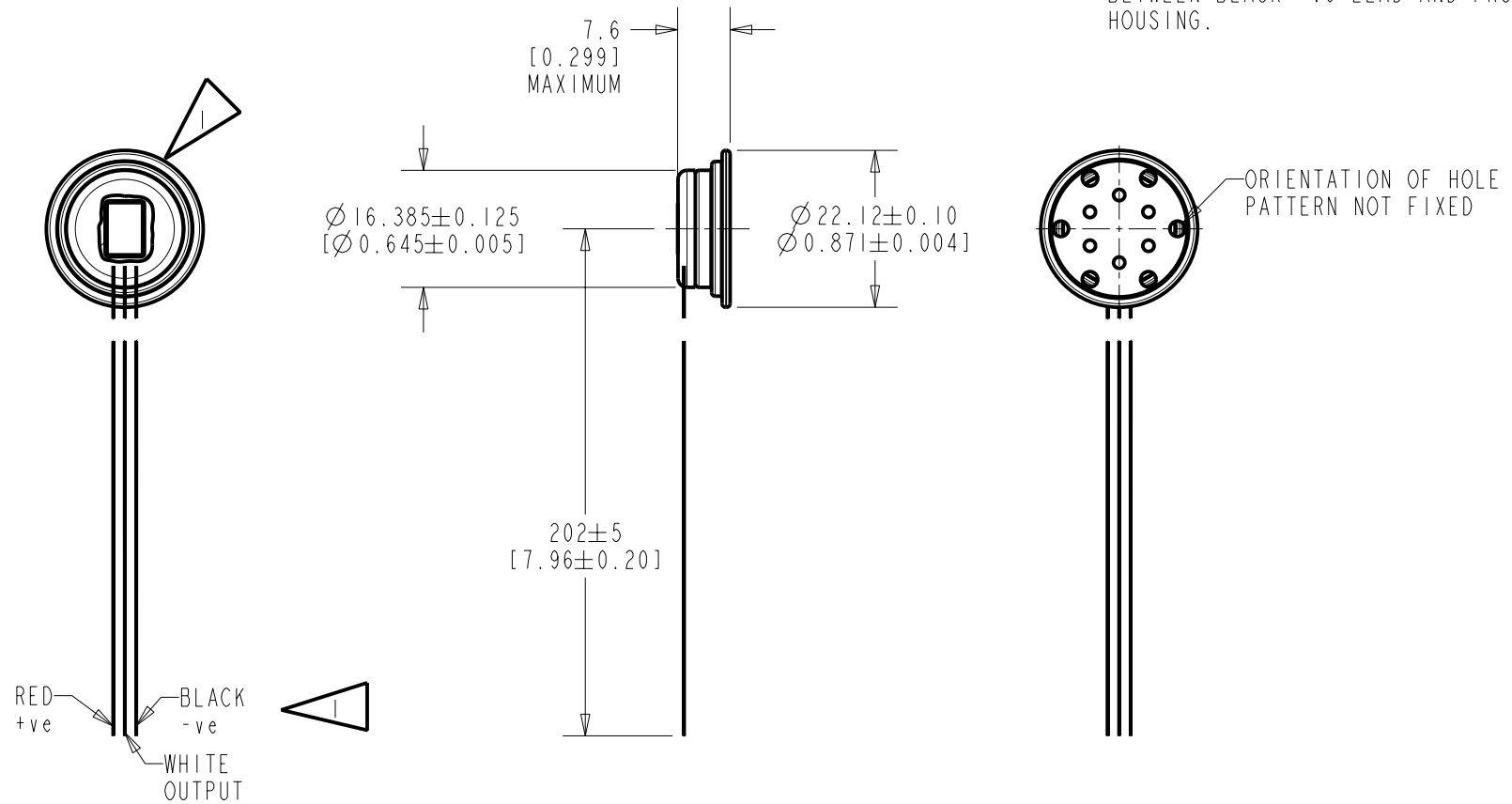
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



**MR-28406-146**  
SHT 1.1

NOTES:

RESISTANCE OF 100 KOHM MINIMUM  
BETWEEN BLACK -ve LEAD AND FRONT  
HOUSING.

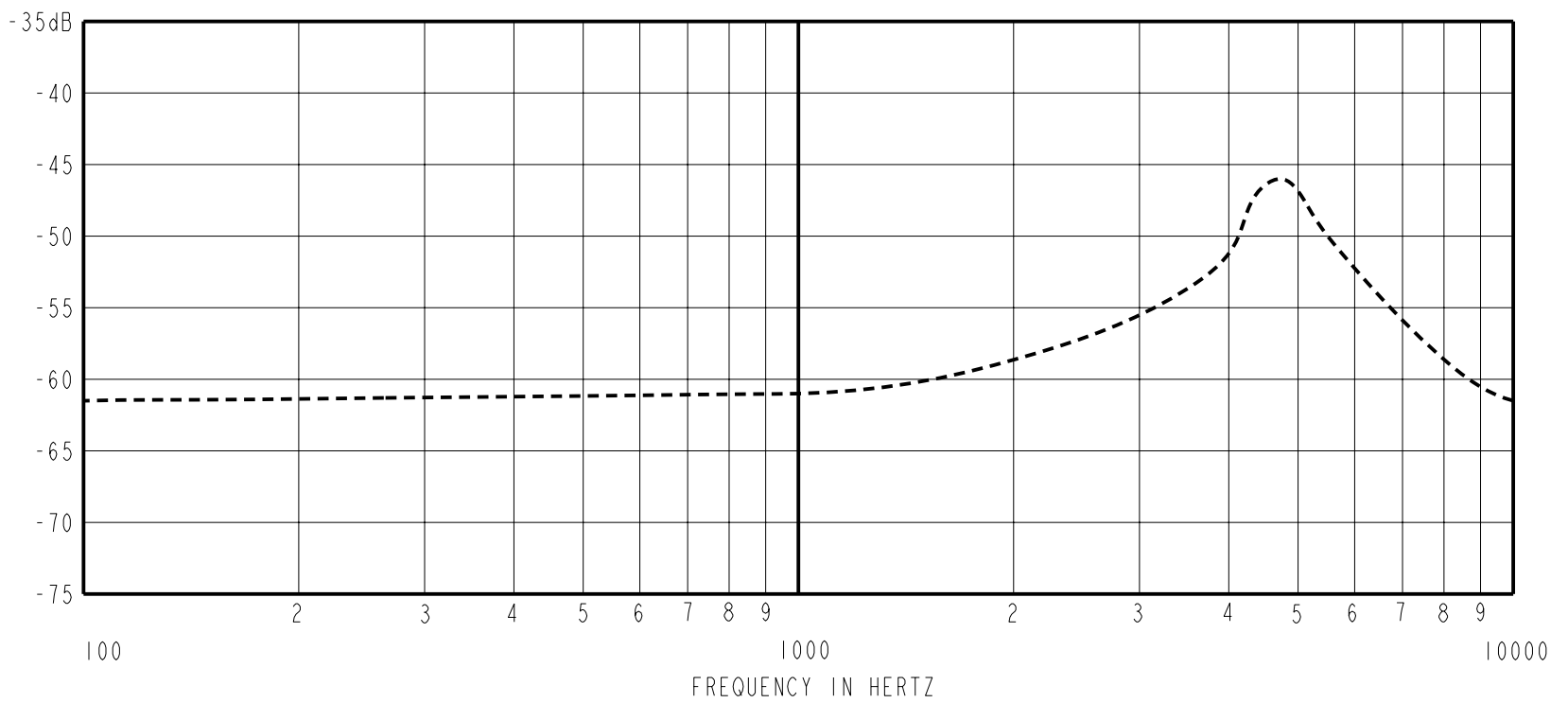


DIMENSIONS IN MILLIMETERS [INCHES]

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

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
A	MI0101069	3-31-06	Released	A
SCALE: 1:1			DR. BY: MMM	DATE: 3-31-06
DO NOT SCALE DRAWING			CK. BY: CRG	DATE: 3-31-06
TITLE: WATERPROOF MICROPHONE			APP. BY: AB	DATE: 4-3-06
OUTLINE DRAWING			MR-28406-146 SHT 1.1	

SENSITIVITY IN dB RELATIVE TO 1.0 VOLT/0.1 Pa (N/M<sup>2</sup>)  
FOR CONDITIONS SHOWN BELOW.

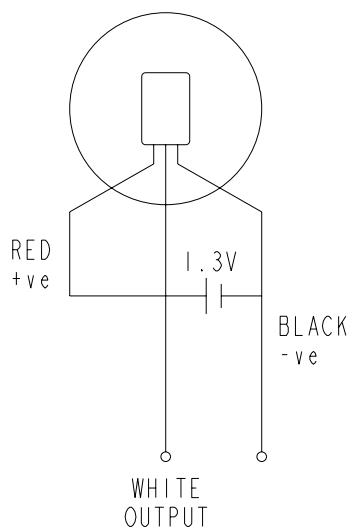


FREQUENCY	SENSITIVITY			DEVICE CONFORMITY	
	MIN.	NOM.	MAX.	RANGE OF DEVIATION FROM 1KHz	
100	---	-61.5	---	-4.0	+1.0
1000	-65.0	-61.0	-58.0	---	---
≈4700	---	-46.0	---	+8.0	+20.0

NOTES:

- CASE OF MICROPHONE CONNECTED TO NEGATIVE LEAD.
- BELLOWS HOUSING INSULATED FROM MICROPHONE.
- MICROPHONE TO BE FUNCTIONAL WITH 20 VDC SUPPLY.
- CONFORMS TO REQUIREMENTS SHOWN ON 'ELECTRET MICROPHONE ENVIRONMENTAL QUALIFICATION TEST, BT-1759 SHEET 2.2.
- MEASUREMENTS MADE WITH UNIT UNDER TEST, SEALED TO AN IEC 318 COUPLER (BRUEL & KJAER PART NO.4153) AFTER A MINIMUM OF 10 MINUTES AT 20M IMMERSION IN WATER AND 43 PSI (GAGE) OR WATER APPLIED TO FACE OF SPEAKER.
- INDIVIDUAL SPECIFICATIONS:

LOAD RESISTANCE ON OUTPUT FOR SENSITIVITY MEASUREMENT OHMS	DC SUPPLY V	OUTPUT IMPEDANCE OHMS			AMPLIFIER CURRENT DRAIN μA MAX	SENSITIVITY CHANGE ON REDUCING SUPPLY TO .9VDC	"A" WEIGHTED NOISE (1 kHz EQUIVALENT SPL) dB SPL MAX
		MIN.	NOM.	MAX.			
10000	1.3	2000	3500	6000	50	3 dB MAX.	30



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WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION

TITLE: **WATERPROOF MICROPHONE** **MR-28406-146**  
PERFORMANCE SPECIFICATION **SHT 2.1**

DR. BY	DATE
MMM	3-31-06
CK. BY	DATE
CRG	3-31-06
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AB	4-3-06