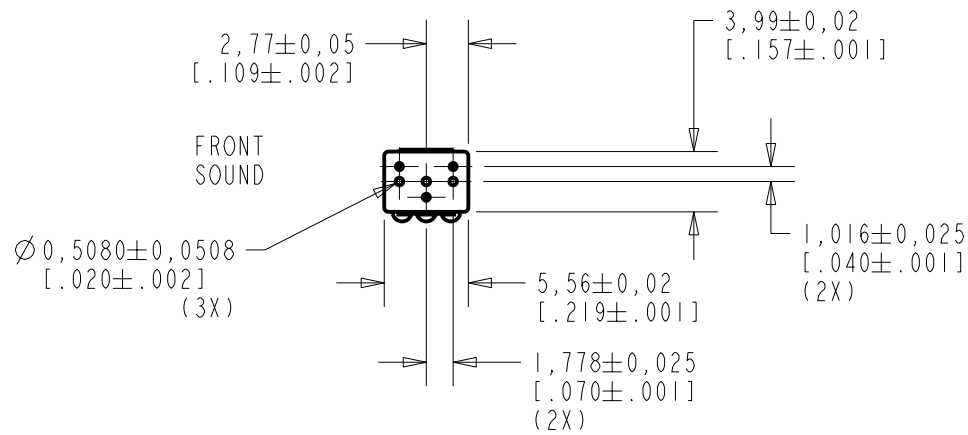
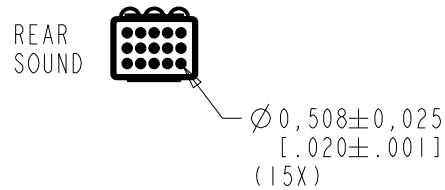
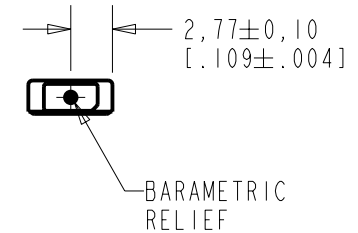
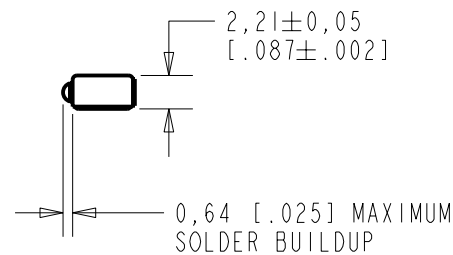
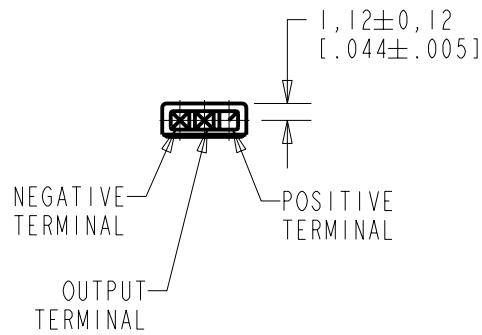


WP-25993-000
SHT 1.1



NOTE:

1. INCREASED PRESSURE AT THE FRONT SOUND INLET CAUSES A POSITIVE GOING VOLTAGE TO APPEAR AT THE OUTPUT TERMINAL, RELATIVE TO THE NEGATIVE TERMINAL.



NOMINAL WEIGHT
.13 GRAM

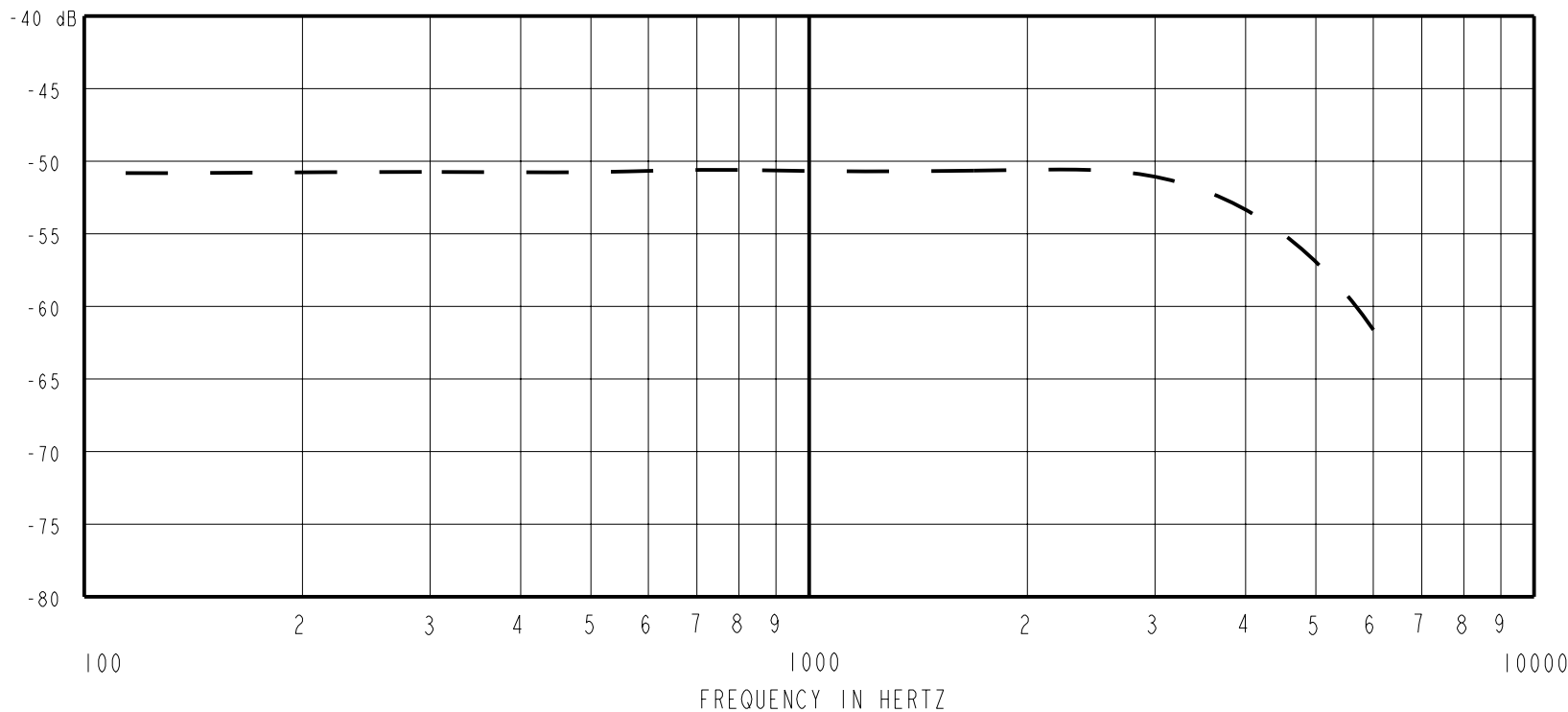
DIMENSIONS IN MILLIMETERS [INCHES]

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
A	MI0100809	10/13/05	Released	A

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SCALE: 2:1		DR. BY: DMS	DATE: 10/13/05
DO NOT SCALE DRAWING		CK. BY: GJP	DATE: 10/18/05
TITLE: MICROPHONE	WP-25993-000	APP. BY: GJP	DATE: 10/18/05
OUTLINE DRAWING	SHT 1.1		

SENSITIVITY IN dB RELATIVE TO 1.0 VOLT/0.1 Pa (N/M²)
FOR CONDITIONS SHOWN BELOW.

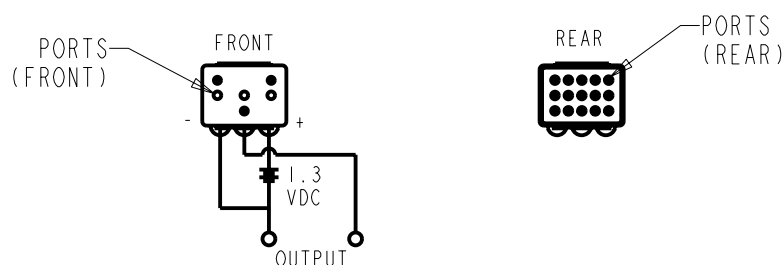


FREQUENCY	SENSITIVITY		
	MIN.	NOM.	MAX.
100	---	-51.0	---
1000	-54.0	-51.0	-48.0
4000	---	-53.0	---

RANGE OF DEVIATION FROM 1KHz	DEVICE CONFORMITY	
	MIN.	MAX.
-2.0	+	+2.0
0.0	0.0	0.0
-5.0	-	+1.0

FREQUENCY	SENSITIVITY		
	MIN.	NOM.	MAX.
100	---	-51.0	---
1000	-54.0	-51.0	-48.0
4000	---	-53.0	---

RANGE OF DEVIATION FROM 1 KHz	DEVICE CONFORMITY	
	MIN.	MAX.
-2.0	+	+2.0
0.0	0.0	0.0
-5.0	-	+1.0



NOTES:

- CASE CONNECTED TO NEGATIVE TERMINAL.
- MICROPHONE TO BE FUNCTIONAL WITH 10 VDC SUPPLY.
- SENSITIVITY VALUES INDICATED ON THIS SPECIFICATION ARE VALID AT 50% HUMIDITY.
- PRESSURE DIFFERENCE SENSITIVITY TESTED WITH REAR SOUND PORT SEALED TO AIR VOLUME OF AT LEAST 0.5 CC.
- MICROPHONE WILL SURVIVE SUBMERSION IN 3M OF WATER.
- CAPACITANCE MEASUREMENT MADE WITH BOONTON MODEL 7200 OR EQUIVALENT WITH APPLIED AC VOLTAGE OF 15 mVOLTS AT 1 MHz AND 0 VDC. INCLUDES CIRCUIT CAPACITANCE IN PARALLEL WITH CAPACITOR.

DC SUPPLY	AMPLIFIER CURRENT DRAIN	OUTPUT IMPEDANCE OHMS			CAPACITANCE ±50%		
		MIN.	NOM.	MAX.	OUTPUT TO NEGATIVE	OUTPUT TO POSITIVE	POS. TO NEGATIVE
1.3V	50uA MAX.	2800	4400	6800	75pF	75pF	N/A

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
A	M10100809	10/13/05	Released	A

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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: **MICROPHONE**
PERFORMANCE SPECIFICATION

WP-25993-000
SHT 2.1

DR. BY	DATE
DMS	10/13/05
CK. BY	DATE
GJP	10/18/05
APP. BY	DATE
GJP	10/18/05