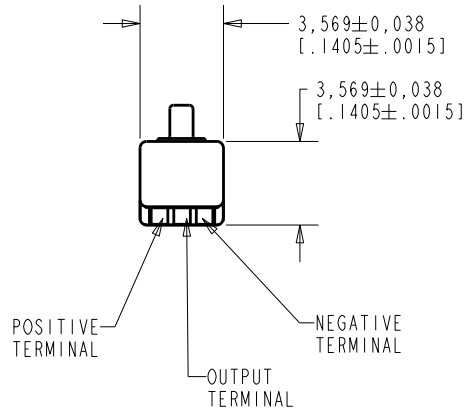
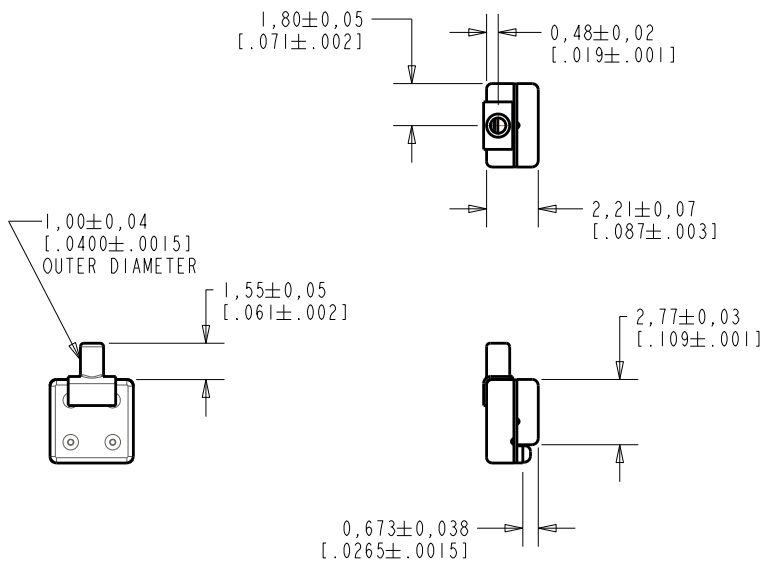


**EM-23047-000**  
**SHT 1.1**

NOTE:

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



NOMINAL WEIGHT  
 .08 GRAMS

DIMENSIONS IN MILLIMETERS [INCHES]

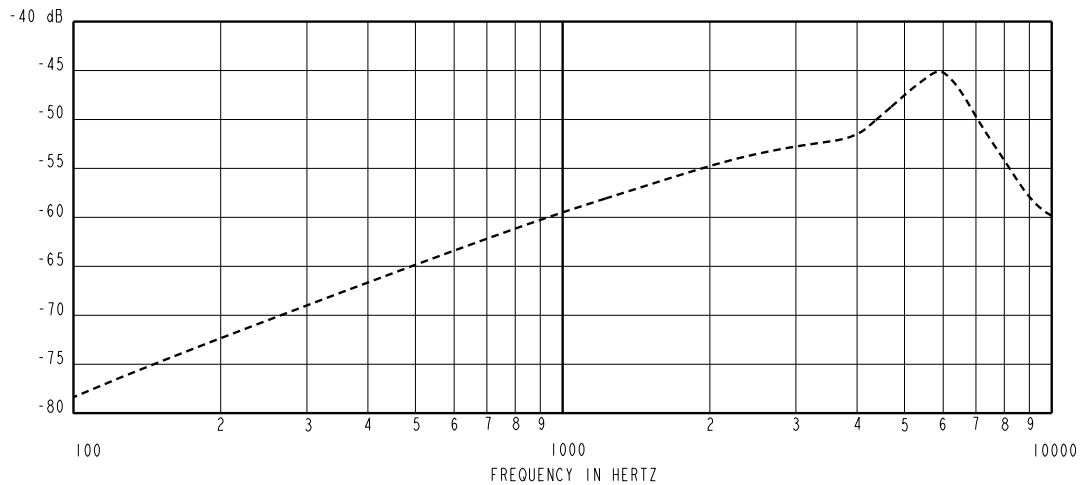
Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
B	M10102011	6-10-08	Active	B
A	M10101257	10-25-06		
SCALE: 4:1			DR. BY	DATE
DO NOT SCALE DRAWING			LSY	10-25-06
			CK. BY	DATE
TITLE: MICROPHONE		EM-23047-000	GJP	11-6-06
			APP. BY	DATE
			GJP	11-6-06
OUTLINE DRAWING		SHT 1.1	Rev: B	

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HE111ASIZE.FRM

Rev: B

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	
300	---	-68.5	---	-11.5	-8.5
1000	-62.5	-58.5	-54.5	0.0	0.0
5500	---	-46.5	---	+7.0	+17.0

NOTES:

- CASE CONNECTED TO NEGATIVE TERMINAL.
- MICROPHONE TO BE FUNCTIONAL WITH 10 VDC SUPPLY.
- TYPICAL SENSITIVITY TO HUMIDITY AT 1000Hz IS 0.06 dB/%RH
- SENSITIVITY AND NOISE VALUES INDICATED ON THIS SPECIFICATION ARE VALID AT 50% HUMIDITY.
- CAPACITANCE MEASUREMENT MADE WITH BOONTON MODEL 7200 OR EQUIVALENT WITH APPLIED AC VOLTAGE OF 15 mVOLTS AT 1MHz AND 0 VDC. INCLUDES CIRCUIT CAPACITANCE IN PARALLEL WITH CAPACITOR.

PORT LOCATION	DC SUPPLY	AMPLIFIER CURRENT DRAIN	SENSITIVITY CHANGE ON REDUCING SUPPLY TO 0.9VDC	"A" WEIGHTED NOISE (Re 1 VOLT)	OUTPUT IMPEDANCE OHMS		
					MIN.	NOM.	MAX.
12B	1.3V	50 µA MAX.	3 dB MAX.	-97.0 dB MAX.	2800	4400	6800

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
B	M10102011	6-10-08	Active	B
A	M10101257	10-25-06		

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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		DR. BY	DATE
TITLE: <b>MICROPHONE</b> PERFORMANCE SPECIFICATION		LSY	10-25-06
		GJP	11-6-06
EM-23047-000 SHT 2.1		APP. BY	DATE
		GJP	11-6-06