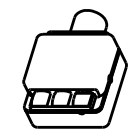
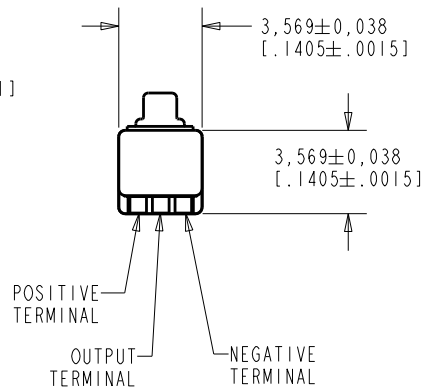
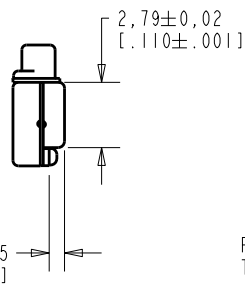
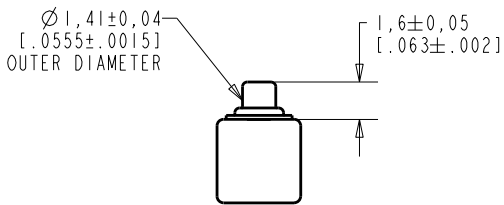
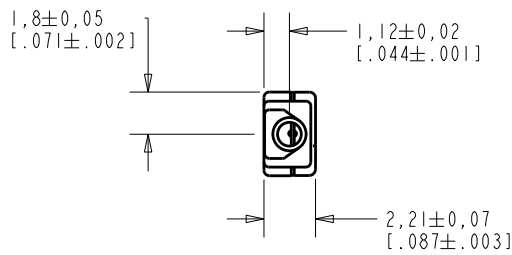


**EM-25047-000**

**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	M10102035	7-7-08	Active	B
A	M10101354	1-26-07		

SCALE:	<b>4:1</b>	DR. BY	DATE
DO NOT SCALE DRAWING		LSY	1-26-07
		CK. BY	DATE
TITLE:	<b>MICROPHONE</b>	GJP	2-13-07
	<b>OUTLINE DRAWING</b>	APP. BY	DATE
		GJP	2-13-07
			Rev: B

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

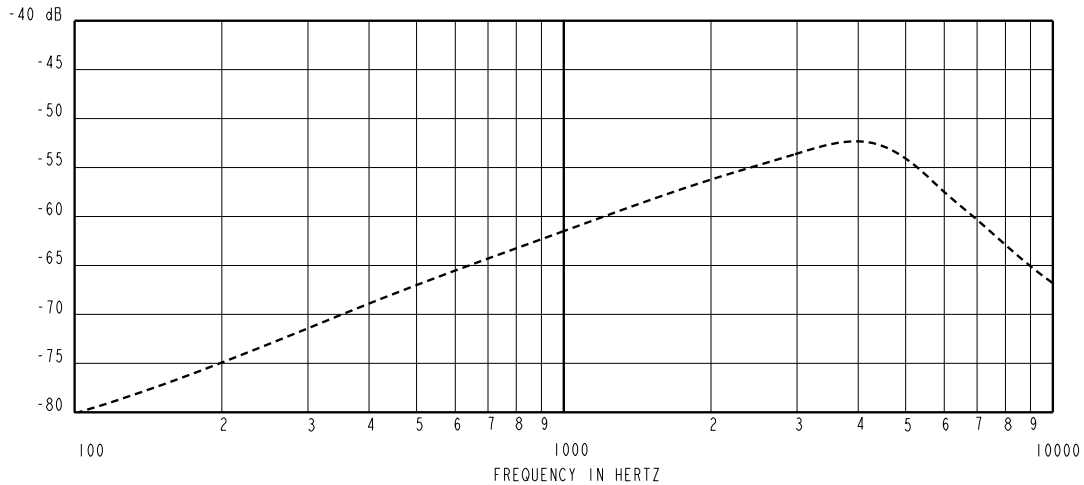
**EM-25047-000**

**SHT 1.1**

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	
500	-71.0	-67.0	-63.0	0	0
3500-5500	---	-52.5	---	+10.5	+18.5
6000	-61.5	-57.5	-53.5	0	0

NOTES:

- CASE CONNECTED TO NEGATIVE TERMINAL.
- MICROPHONE TO BE FUNCTIONAL WITH 1.6 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 (1 kHz EQUIV. SPL)	OUTPUT IMPEDANCE OHMS		
					MIN.	NOM.	MAX.
12S	1.3V	50 µA MAX.	3 dB MAX.	-97.0 dB MAX.	2000	2800	4000

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
B	M10102035	7-7-08	Active	B
A	M10101354	1-26-07		

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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**      **EM-25047-000**  
PERFORMANCE SPECIFICATION      **SHT 2.1**

DR. BY	DATE
LSY	1-26-07
CK. BY	DATE
GJP	2-13-07
APP. BY	DATE
GJP	2-13-07