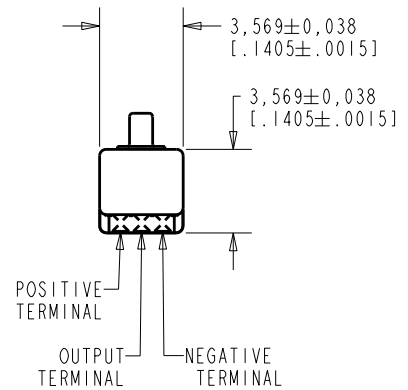
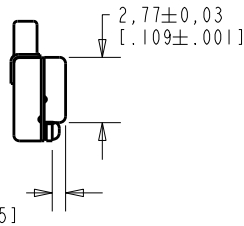
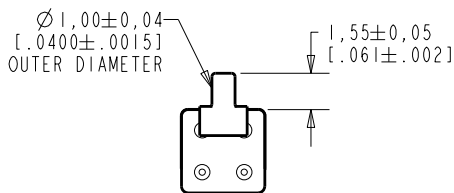
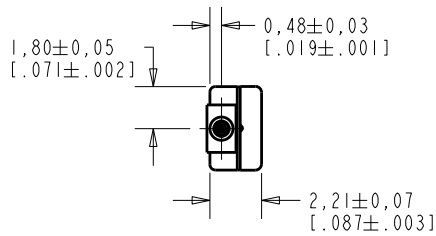


**EM-27900-C46**  
SHT 1.1

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

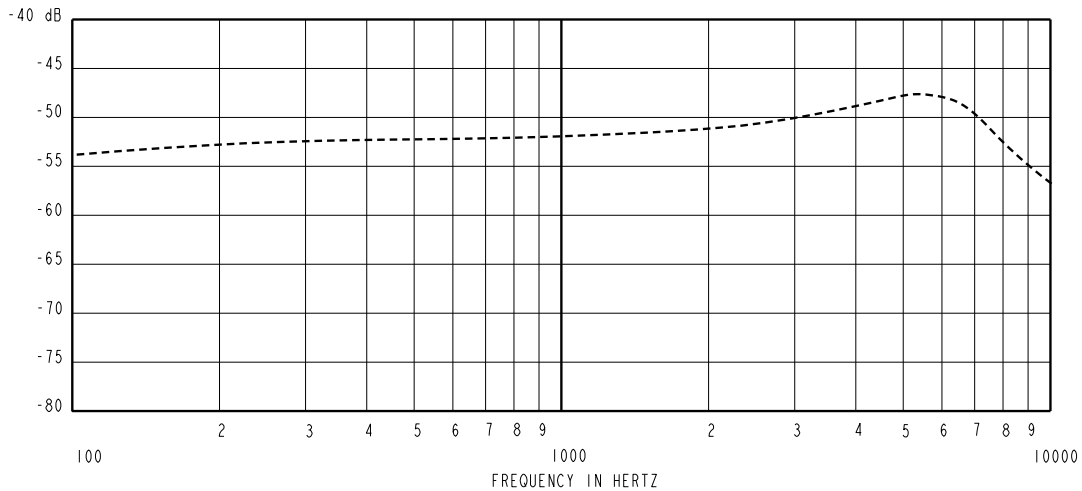
DIMENSIONS IN MILLIMETERS [INCHES]

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Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			Active	D
D	M10102070	12-30-08		
SCALE: 4:1			DR. BY	DATE
DO NOT SCALE DRAWING			MMM	12-22-05
TITLE: MICROPHONE			CK. BY	DATE
OUTLINE DRAWING			GJP	1-2-06
EM-27900-C46			APP. BY	DATE
SHT 1.1			GJP	1-2-06

HE111AS12E.FRM Rev: B

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



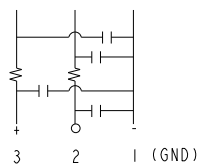
FREQUENCY	SENSITIVITY			DEVICE CONFORMITY	
	MIN.	NOM.	MAX.	RANGE OF DEVIATION FROM 1KHz	
100	---	-53.5	---	-3.0	0.0
1000	-55.0	-52.0	-49.0	0.0	0.0
≈ 5000	---	-47.5	---	+1.5	+7.5

NOTES:

- CASE CONNECTED TO NEGATIVE TERMINAL.
- MICROPHONE TO BE FUNCTIONAL WITH 1.6 VDC SUPPLY.
- TYPICAL SENSITIVITY TO HUMIDITY AT 1000Hz IS 0.03 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			CAPACITANCE ±50%	
					MIN.	NOM.	MAX.	1-2	1-3
12B	1.3V	50 µA MAX.	3 dB MAX.	28.0 dB MAX.	2800	4400	6800	30pF	30pF

CAPACITANCE PROBE POINTS



Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
D	M10102070	12-30-08	Active	D

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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-27900-C46**  
PERFORMANCE SPECIFICATION      SHT 2.1

DR. BY	DATE
MMM	12-22-05
CK. BY	DATE
GJP	1-2-06
APP. BY	DATE
GJP	1-2-06