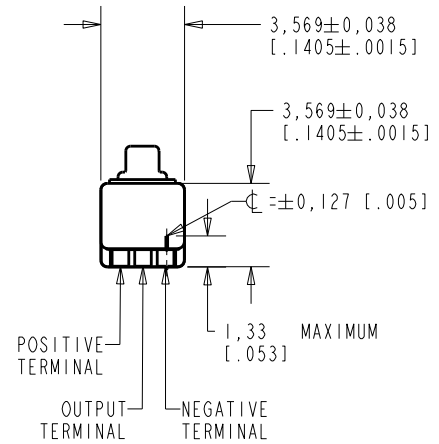
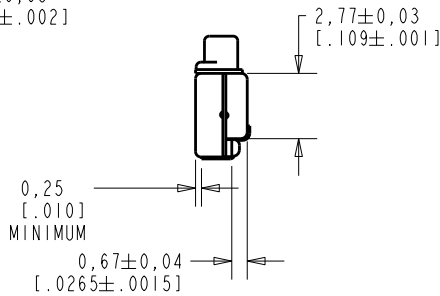
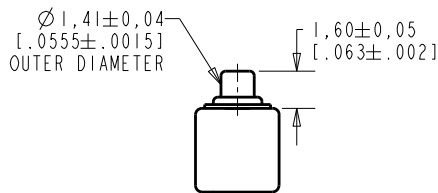
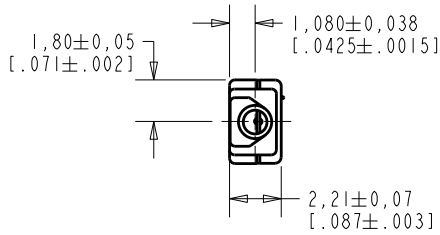


**EM-25046-C36**  
SHT 1.1



NOMINAL WEIGHT  
.08 GRAMS

DIMENSIONS IN MILLIMETERS [INCHES]

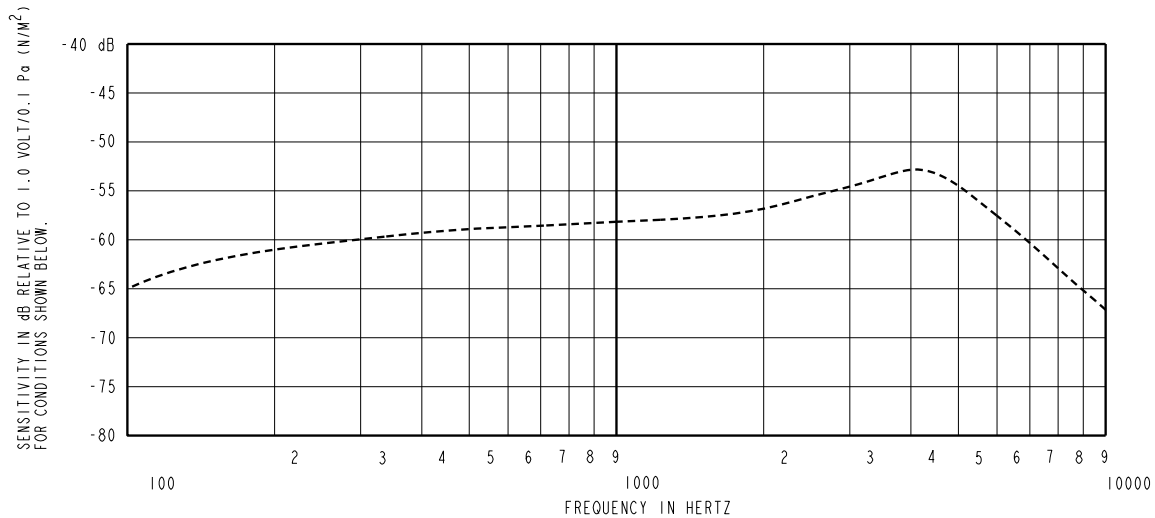
Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
B	M10102035	7-7-08	Active	B
A	M10100707	7-11-05		

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SCALE:	<b>4:1</b>	DR. BY	DATE
DO NOT SCALE DRAWING		MM	7-11-05
TITLE:	<b>MICROPHONE</b>	CK. BY	DATE
	OUTLINE DRAWING	GJP	7-11-05
		APP. BY	DATE
		GJP	7-11-05

**EM-25046-C36**  
SHT 1.1

HE111AS1ZE.FRM Rev: B



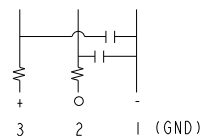
FREQUENCY	SENSITIVITY			DEVICE CONFORMITY	
	MIN.	NOM.	MAX.	RANGE OF DEVIATION FROM 1KHz	
100	---	-65.0	---	-10.0	-3.0
1000	-61.0	-58.0	-55.0	---	---
3500-5500	---	-52.5	---	---	---
6000	-61.5	-57.5	-53.5	+2.5	+8.5
				---	---

NOTES:

- CASE CONNECTED TO NEGATIVE TERMINAL.
- MICROPHONE TO BE FUNCTIONAL WITH 10 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.

DC SUPPLY	AMPLIFIER CURRENT DRAIN	SENSITIVITY CHANGE ON REDUCING SUPPLY TO 0.9VDC	"A" WEIGHTED NOISE (RE 1.0 VOLT)	OUTPUT IMPEDANCE OHMS			CAPACITANCE ±50%	
				MIN.	NOM.	MAX.	1-2	1-3
1.3V	50 µA MAX.	3 dB MAX.	31.0 dB MAX.	2000	2800	4000	75pF	75pF

CAPACITANCE PROBE POINTS



Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
B	MI0102035	7-7-08	Active	B
A	MI0100707	7-11-05		

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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
		MMM	7-11-05
TITLE: MICROPHONE		CK. BY	DATE
PERFORMANCE SPECIFICATION		GJP	7-11-05
EM-25046-C36		APP. BY	DATE
SHT 2.1		GJP	7-11-05