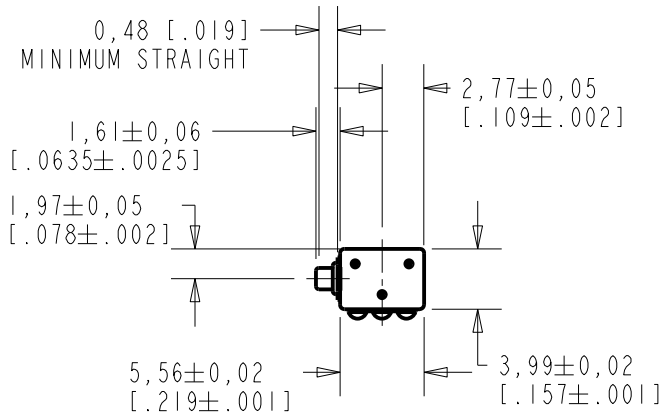
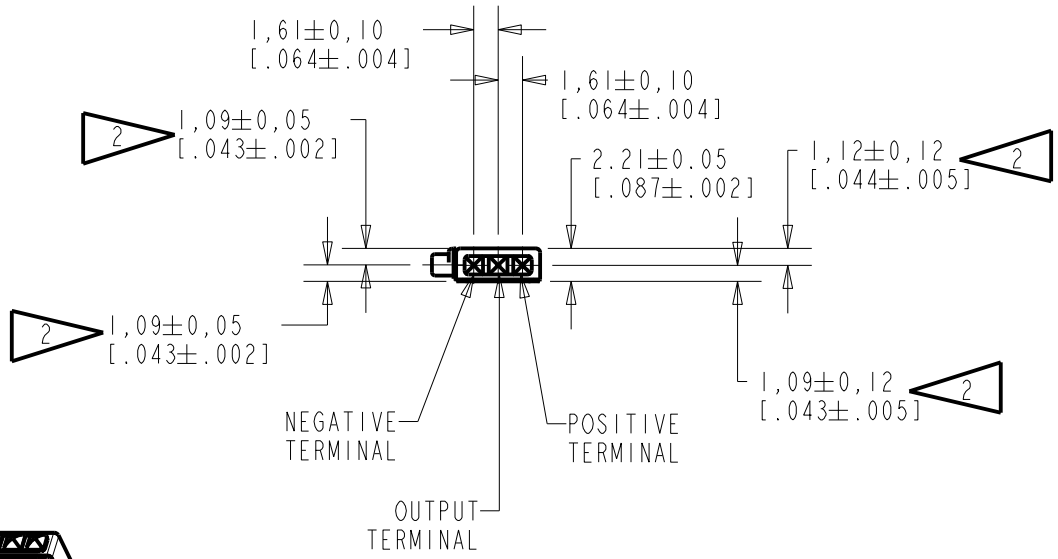
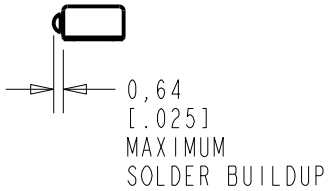



NOTE

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

2 LOCATED FROM TWO SURFACES FOR CUSTOMER CONVENIENCE. ONLY APPLICABLE FROM ONE SURFACE, NOT TO BE USED TOGETHER. HORIZONTAL LOCATION FOR TERMINAL CENTERED TO ±0,17 [.007].






NOMINAL WEIGHT
.13 GRAM

DIMENSIONS IN MILLIMETERS [INCHES]

| Revision | C.O. # | Implementation Date |
|---|---|---|
| C | MI0105324 | 1-28-14 |
| B | MI0104944 | 2-27-13 |
| A | MI0101028 | 2-28-06 |

RELEASE LEVEL: Active

REVISION: C

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

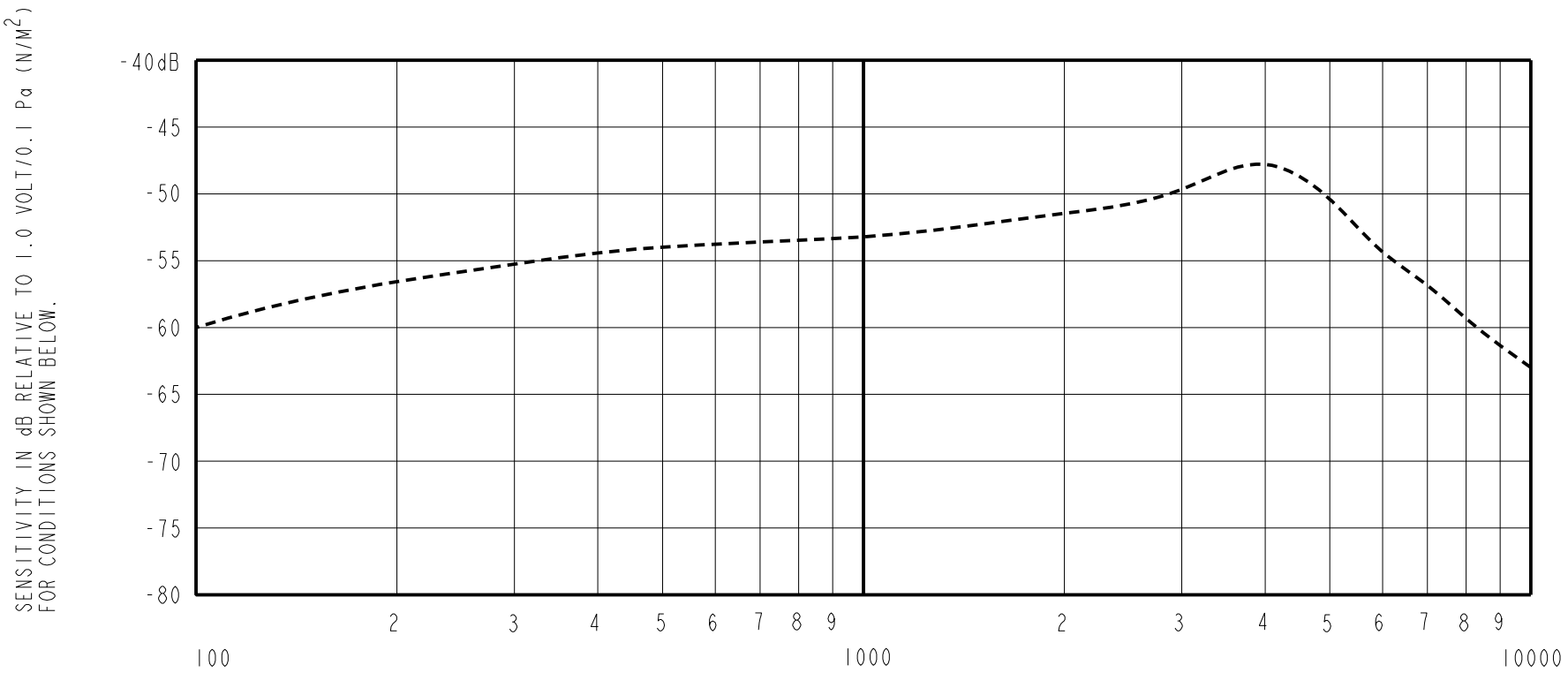
SCALE: 2:1

DO NOT SCALE DRAWING

TITLE: MICROPHONE
OUTLINE DRAWING

EK-23032-000
SHT 1.1

| DR. BY | DATE |
|---|---|
| MMM | 2-28-06 |
| CK. BY | DATE |
| GJP | 3-2-06 |
| APP. BY | DATE |
| GJP | 3-2-06 |




SENSITIVITY

| FREQUENCY | MIN. | NOM. | MAX. |
|---|---|---|---|
| 100 | --- | -60.0 | --- |
| 1000 | -55.0 | -53.0 | -51.0 |
| 3000-5000 | --- | -48.5 | --- |

DEVICE CONFORMITY

| RANGE OF DEVIATION FROM 1KHz | |
|---|---|
| -11.0 | -4.0 |
| 0.0 | 0.0 |
| +1.5 | +7.5 |

NOTES:

1. CASE CONNECTED TO NEGATIVE TERMINAL.
2. MICROPHONE TO BE FUNCTIONAL WITH 10 VDC SUPPLY.
3. CONFORMS TO REQUIREMENTS SHOWN ON 'ELECTRET MICROPHONE ENVIRONMENTAL QUALIFICATIONS TEST, EK-PA SHEET 2.2' WITH REF. FREQ. OF 1000 Hz.
4. TYPICAL SENSITIVITY TO HUMIDITY AT 1000 Hz IS 0.02 dB/%RH.
5. SENSITIVITY AND NOISE VALUES INDICATED ON THIS SPECIFICATION ARE VALID AT 50% HUMIDITY.

| 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. |
| 3S | 1.3V | 50 µA MAX. | 3 dB MAX. | 26.0 dB MAX. | 2800 | 4400 | 6800 |

| Revision | C.O. # | Implementation Date | RELEASE LEVEL | REVISION |
|---|---|---|---|---|
| C | M10105324 | 1-28-14 | Active | C |
| B | M10104944 | 2-27-13 | | |
| A | M10101028 | 2-28-06 | | |

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

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

EK-23032-000
SHT 2.1

| DR. BY | DATE |
|---|---|
| MMM | 2-28-06 |
| CK. BY | DATE |
| GJP | 3-2-06 |
| APP. BY | DATE |
| GJP | 3-2-06 |