

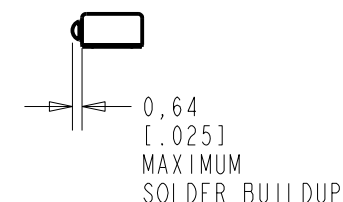
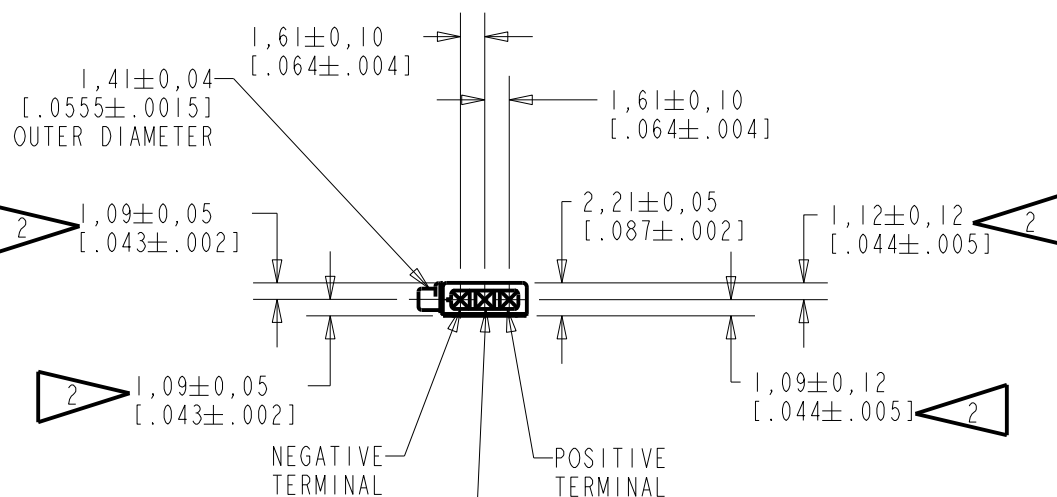
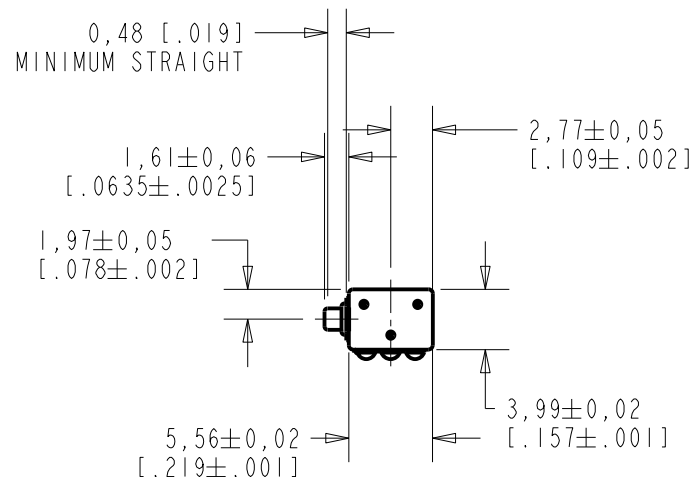
**EK-23032-C36**

**SHT 1.1**

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  $\pm 0,17$  [.007].



NOMINAL WEIGHT  
.13 GRAM

DIMENSIONS IN MILLIMETERS [INCHES]

| Revision | C.O. #    | Implementation Date | RELEASE LEVEL | REVISION |
|----------|-----------|---------------------|---------------|----------|
| B        | MI0104944 | 2-27-13             | Active        | B        |
| A        | MI0101052 | 3-13-06             |               |          |

SCALE:

2:1

DO NOT SCALE DRAWING

TITLE:

**MICROPHONE**

OUTLINE DRAWING

**EK-23032-C36**

**SHT 1.1**

DR. BY

DATE

MMM

3-13-06

CK. BY

DATE

GJP

3-16-06

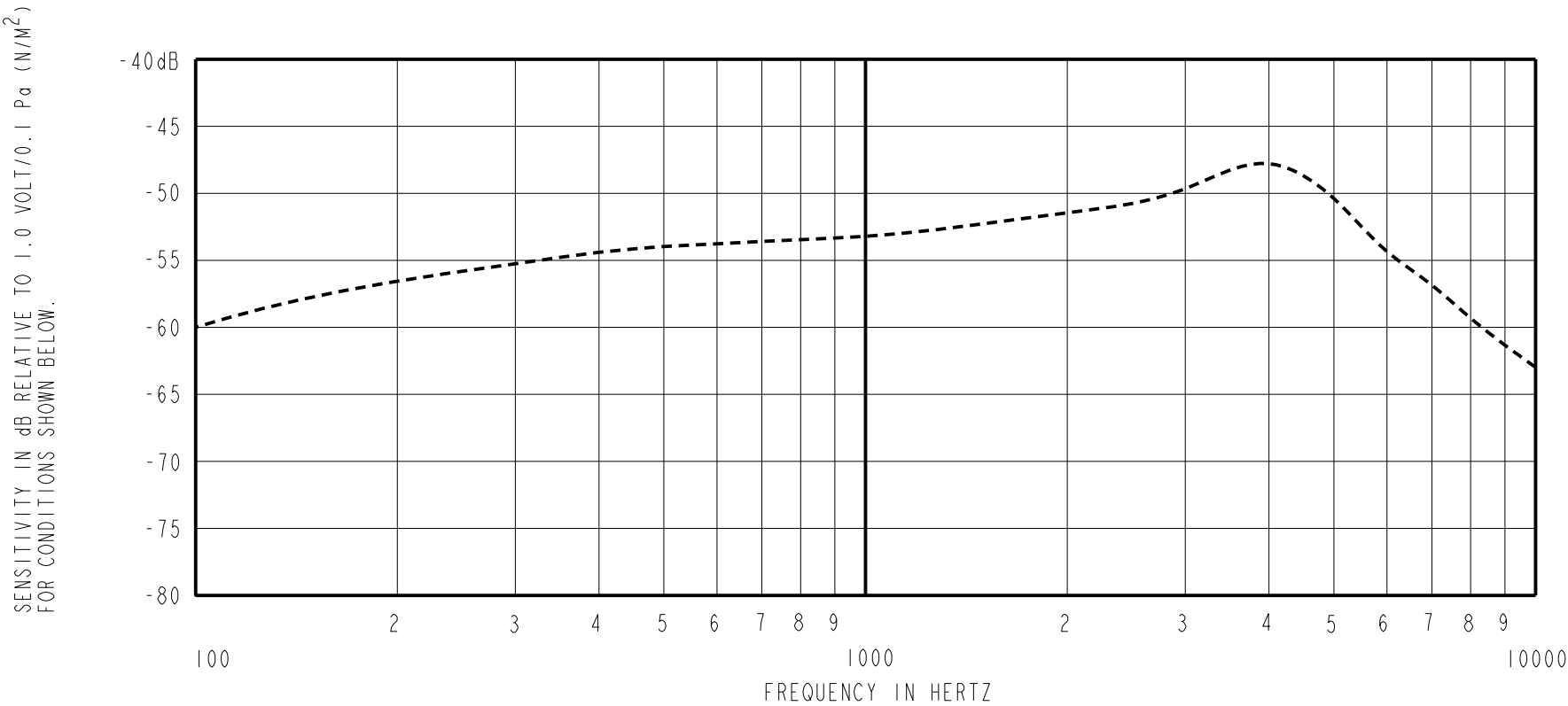
APP. BY

DATE

GJP

3-16-06

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



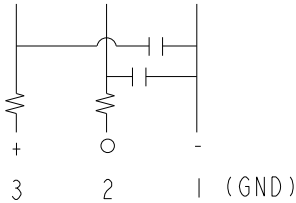
| FREQUENCY | SENSITIVITY |       |       | DEVICE CONFORMITY            |      |
|-----------|-------------|-------|-------|------------------------------|------|
|           | MIN.        | NOM.  | MAX.  | RANGE OF DEVIATION FROM 1KHz |      |
| 100       | ---         | -60.0 | ---   | -11.0                        | -4.0 |
| 1000      | -55.0       | -53.0 | -51.0 | 0.0                          | 0.0  |
| 3000-5000 | ---         | -48.5 | ---   | +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.
6. CAPACITANCE MEASUREMENT MADE WITH BOONTON MODEL 7200 OR EQUIVALENT WITH APPLIED AC VOLTAGE OF 15 mVOLTS AT 1 kHz 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. | OUTPUT TO NEGATIVE | OUTPUT TO POSITIVE | POS. TO NEGATIVE |
| 3S            | 1.3V      | 50 µA MAX.              | 3 dB MAX.                                       | 26.0 dB MAX.                          | 2800                  | 4400 | 6800 | 75pF               | N/A                | 75pF             |

CAPACITANCE PROBE POINTS



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| Revision   | C.O. #    | Implementation Date | RELEASE LEVEL |         | REVISION |
|--|-----------|---------------------|---------------|---------|----------|
| B  | M10104944 | 2-27-13             | Active        |         | B        |
| A  | M10101052 | 3-13-06             |               |         |          |
| 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           | 3-13-06 |          |
| TITLE: MICROPHONE<br>PERFORMANCE SPECIFICATION   |           |                     | CK. BY        | DATE    |          |
|  |           |                     | GJP           | 3-16-06 |          |
| EK-23032-C36<br>SHT 2.1  |           |                     | APP. BY       | DATE    |          |
|  |           |                     | GJP           | 3-16-06 |          |