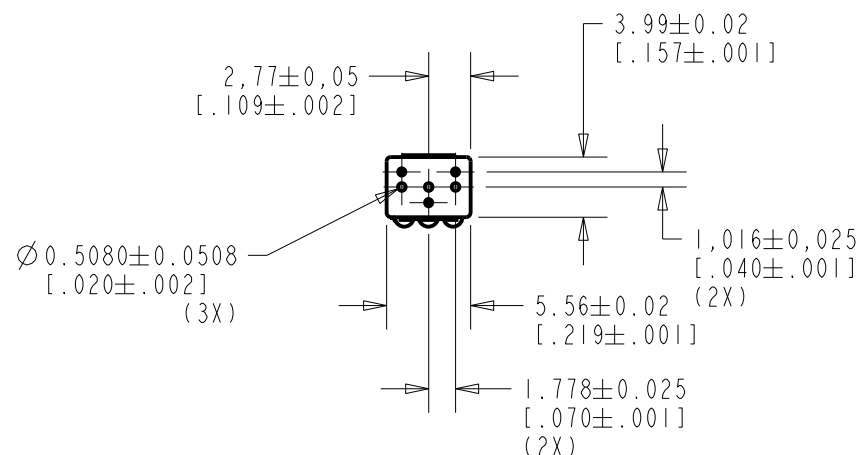


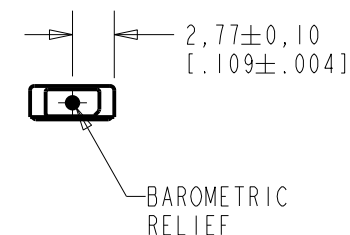
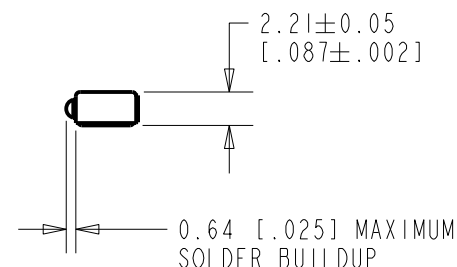
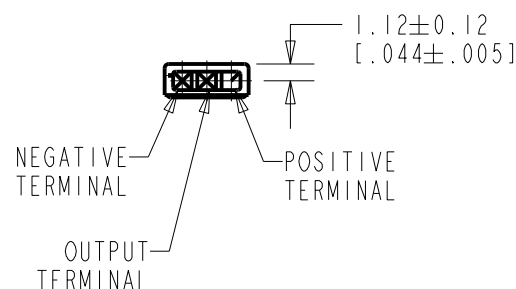
WP-23502-000

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.

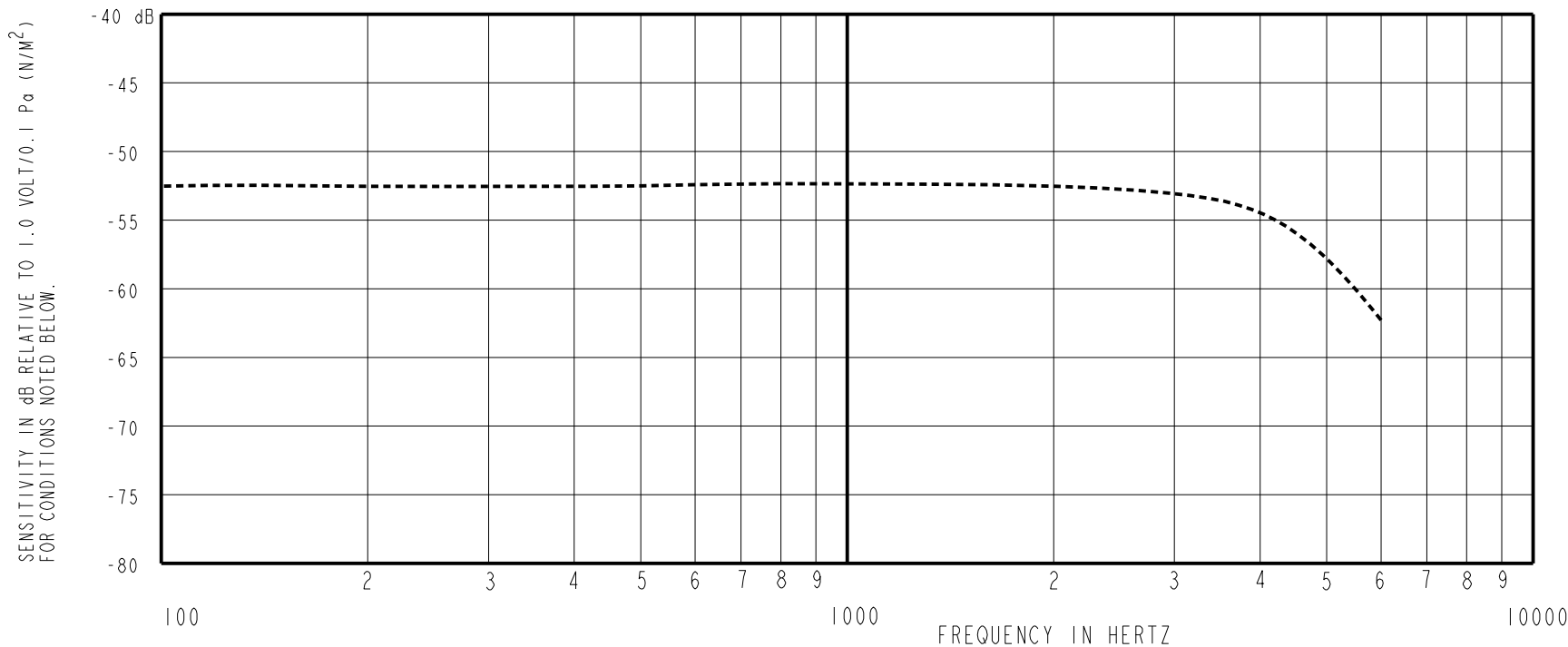


NOMINAL WEIGHT  
.13 GRAM

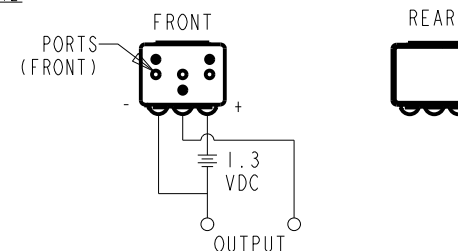
DIMENSIONS IN MILLIMETERS [INCHES]

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

| Revision             | C.O. #    | Implementation Date | RELEASE LEVEL | REVISION      |
|----------------------|-----------|---------------------|---------------|---------------|
| B                    | MI0105331 | 12-25-13            | Active        | B             |
| A                    | MI0100924 | 11/23/05            |               |               |
| SCALE: 2:1           |           |                     | DR. BY DMS    | DATE 11/23/05 |
| DO NOT SCALE DRAWING |           |                     | CK. BY GJP    | DATE 11/27/05 |
| TITLE: MICROPHONE    |           | WP-23502-000        |               | APP. BY GJP   |
| OUTLINE DRAWING      |           | SHT 1.1             |               | DATE 11/27/05 |



| FREQUENCY | SENSITIVITY |       |       | DEVICE CONFORMITY             |      |
|-----------|-------------|-------|-------|-------------------------------|------|
|           | MIN.        | NOM.  | MAX.  | RANGE OF DEVIATION FROM 1 KHz |      |
| 100       | ---         | -52.0 | ---   | -2.0                          | +2.0 |
| 1000      | -55.0       | -52.0 | -49.0 | 0.0                           | 0.0  |
| 4000      | ---         | -53.0 | ---   | -4.0                          | +2.0 |



NOTES:

- CASE CONNECTED TO NEGATIVE TERMINAL.
- MICROPHONE TO BE FUNCTIONAL WITH 10 VDC SUPPLY.
- SENSITIVITY VALUES INDICATED ON THIS SPECIFICATION ARE VALID AT 50% HUMIDITY.
- MICROPHONE WILL SURVIVE SUBMERSION IN 3M OF WATER.

| DC SUPPLY | AMPLIFIER CURRENT DRAIN | OUTPUT IMPEDANCE OHMS |      |      |
|-----------|-------------------------|-----------------------|------|------|
|           |                         | MIN.                  | NOM. | MAX. |
| 1.3V      | 50uA MAX.               | 2800                  | 4400 | 6800 |

| Revision | C.O. #    | Implementation Date | RELEASE LEVEL | REVISION |
|----------|-----------|---------------------|---------------|----------|
| B        | MI0105331 | 12-25-13            | Active        | B        |
| A        | MI0100924 | 11/23/05            |               |          |

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

|                      |  |         |          |
|----------------------|--|---------|----------|
| SCALE: 2:1           |  | DR. BY  | DATE     |
| DO NOT SCALE DRAWING |  | DMS     | 11/23/05 |
| TITLE: MICROPHONE    |  | CK. BY  | DATE     |
| OUTLINE DRAWING      |  | GJP     | 11/27/05 |
| WP-23502-000         |  | APP. BY | DATE     |
| SHT 2.1              |  | GJP     | 11/27/05 |

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Knowles:

[WP-23502-P49](#) [WP-23849-C36](#) [WP-25993-D63](#) [WP-23502-P07](#) [WP-23502-000](#) [WP-23502-P16](#) [WP-23501-000](#)  
[WP-30113-P03](#) [WP-23849-P16](#) [WP-30113-PO3](#) [WP-25993-000](#) [VWP-F-30609-000](#) [WP-25393-000](#) [WP-30113-P132](#)  
[WP22502-P16](#) [WP-23501-P05](#) [WP-23500-000](#) [WP-23898-C36](#) [FB-DO-23847-E46](#)