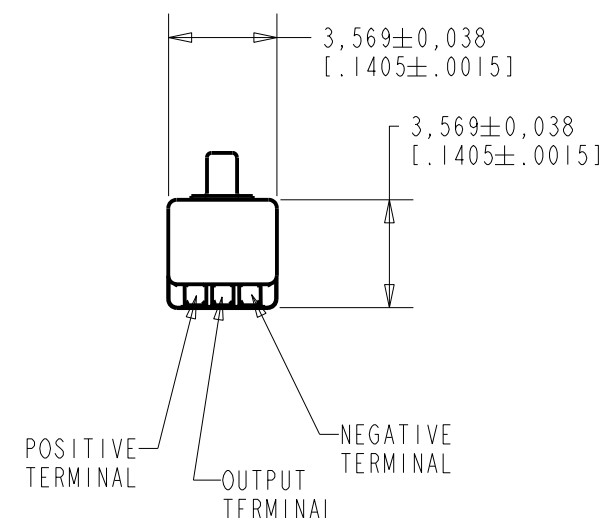
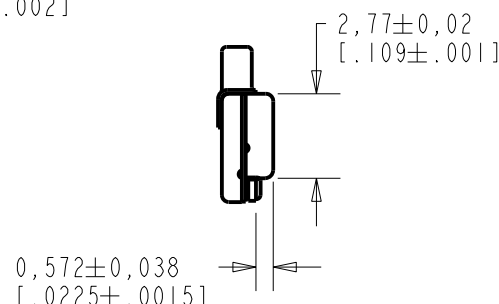
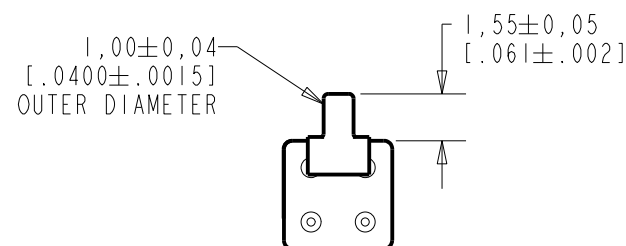
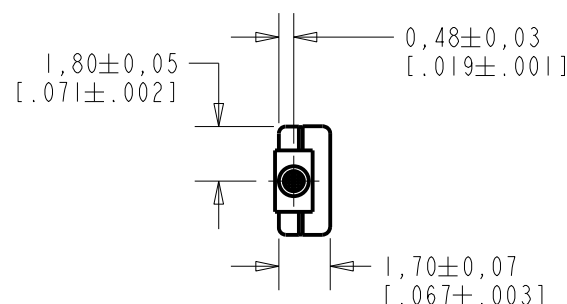


# TM-23546-C36 SHT 1.1

## NOTES:

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



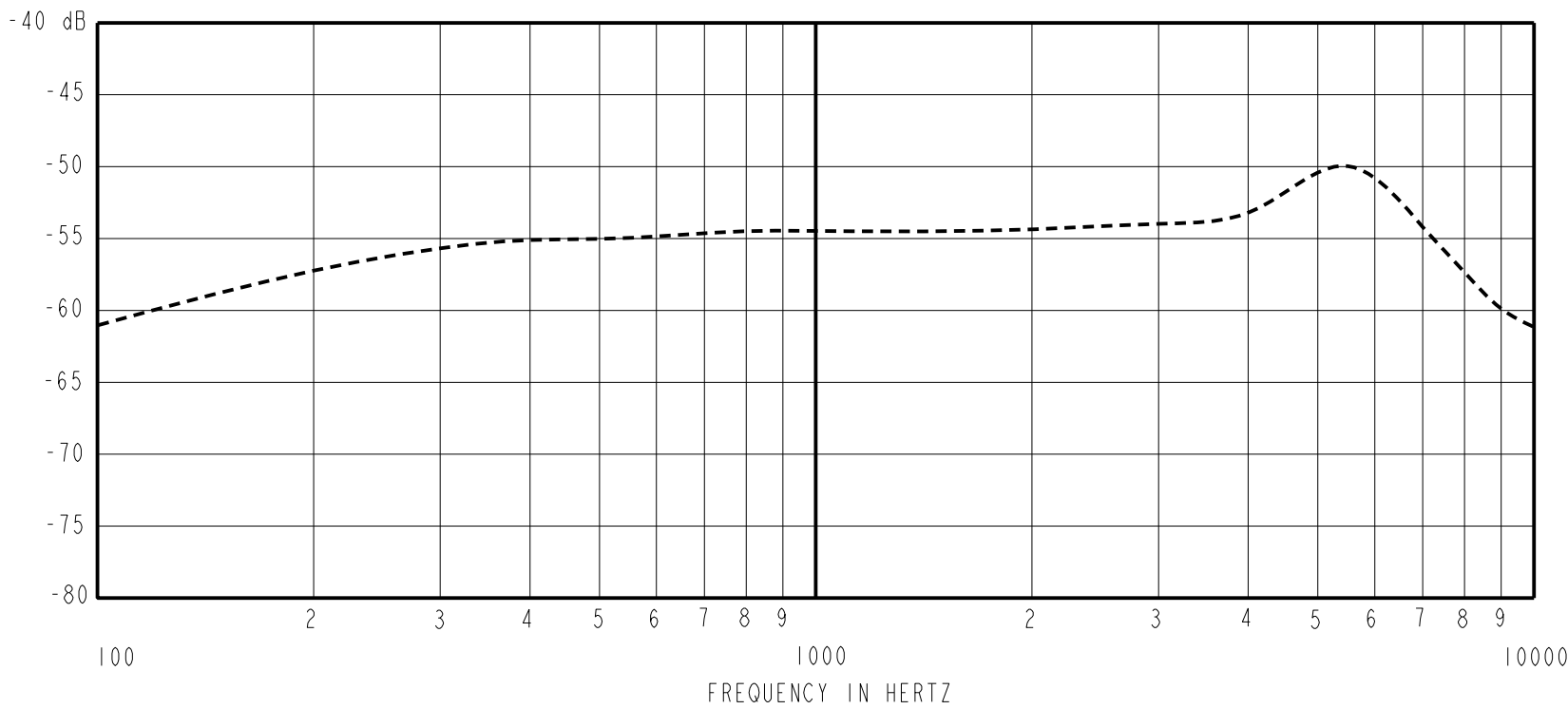
NOMINAL WEIGHT  
.08 GRAMS

DIMENSIONS IN MILLIMETERS [INCHES]

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

| Revision             | C.O. #    | Implementation Date | RELEASE LEVEL | REVISION |
|----------------------|-----------|---------------------|---------------|----------|
|                      |           |                     | Active        | G        |
| G                    | MI0105778 | 11-10-14            |               |          |
|                      |           |                     |               |          |
| SCALE: 4:1           |           |                     | DR. BY        | DATE     |
| DO NOT SCALE DRAWING |           |                     | MMM           | 1-4-06   |
| TITLE: MICROPHONE    |           |                     | CK. BY        | DATE     |
| OUTLINE DRAWING      |           |                     | GJP           | 1-5-06   |
| TM-23546-C36         |           |                     | APP. BY       | DATE     |
| SHT 1.1              |           |                     | GJP           | 1-5-06   |

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       | ---         | -61.0 | ---   | -10.0                        | -3.0 |
| 1000      | -57.5       | -54.5 | -51.5 | 0.0                          | 0.0  |
| ≈5000     | ---         | -47.5 | ---   | +1.5                         | +7.5 |

- NOTES: 1. CASE CONNECTED TO NEGATIVE TERMINAL.
2. MICROPHONE TO BE FUNCTIONAL WITH 1.6 VDC SUPPLY.
3. TYPICAL SENSITIVITY TO HUMIDITY AT 1000Hz IS 0.03 dB/%RH
4. 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. |
| 12B           | 1.3V      | 50 μA MAX.              | 3 dB MAX.                                       | 31.0 dB MAX.                          | 2800                  | 4400 | 6800 |

KNOWLES ELECTRONICS  
ITASCA, ILLINOIS U.S.A.

| Revision                                       | C.O. #    | Implementation Date | RELEASE LEVEL           |  | REVISION                   |
|------------------------------------------------|-----------|---------------------|-------------------------|--|----------------------------|
|                                                |           |                     | Active                  |  | G                          |
|                                                |           |                     |                         |  |                            |
| G                                              | M10105778 | 11-10-14            |                         |  |                            |
| TITLE: MICROPHONE<br>PERFORMANCE SPECIFICATION |           |                     | TM-23546-C36<br>SHT 2.1 |  | DR. BY DATE<br>MMM 1-4-06  |
|                                                |           |                     |                         |  | CK. BY DATE<br>GJP 1-5-06  |
|                                                |           |                     |                         |  | APP. BY DATE<br>GJP 1-5-06 |