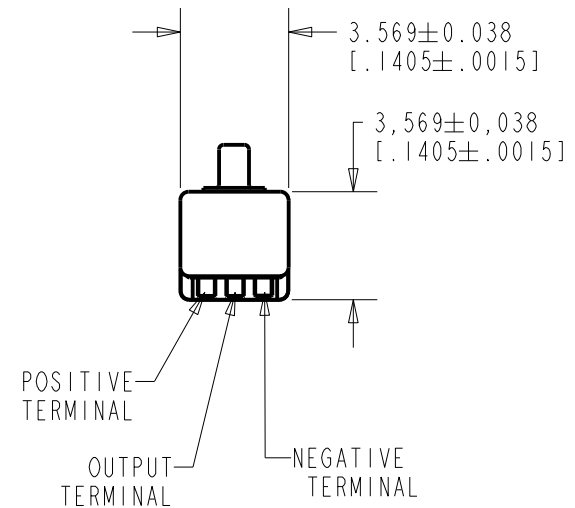
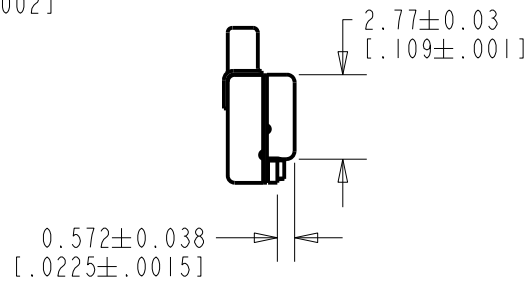
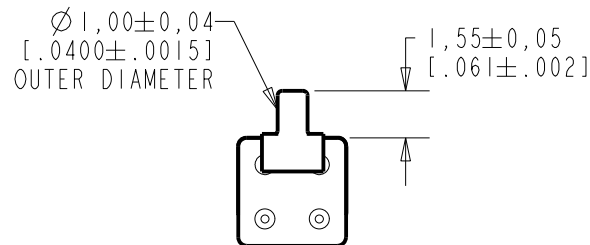
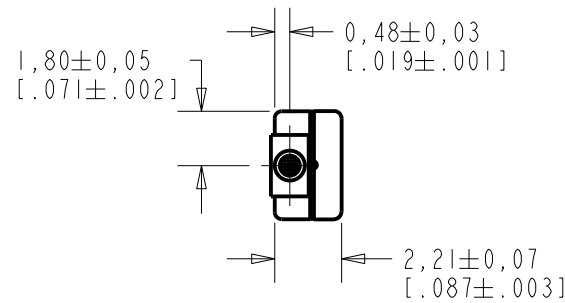


EM-27900-C46
SHT 1.1

NOTE:

- 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

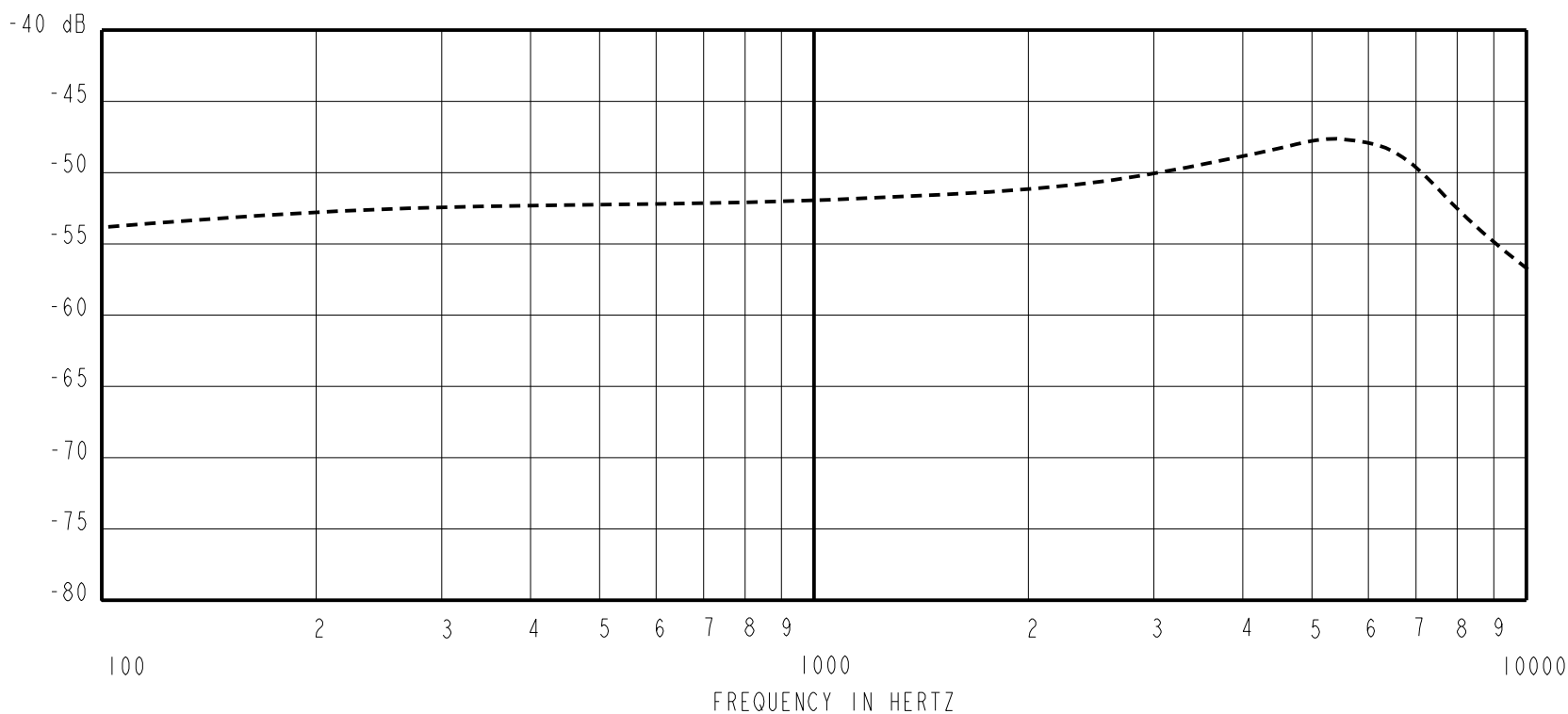
DIMENSIONS IN MILLIMETERS [INCHES]

| Revision | C.O. # | Implementation Date | RELEASE LEVEL | REVISION |
|----------|-----------|---------------------|---------------|----------|
| G | MI0105773 | 10-20-14 | Active | G |

| | | |
|----------------------|--|---------------|
| SCALE: 4:1 | | DR. BY: DATE |
| DO NOT SCALE DRAWING | | MMM 12-22-05 |
| TITLE: MICROPHONE | | CK. BY: DATE |
| EM-27900-C46 | | GJP 1-2-06 |
| OUTLINE DRAWING | | APP. BY: DATE |
| SHT 1.1 | | GJP 1-2-06 |

KNOWLES ELECTRONICS
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SENSITIVITY IN dB RELATIVE TO 1.0 VOLT/0.1 Pa (N/M²)
FOR CONDITIONS SHOWN BELOW.



| FREQUENCY | SENSITIVITY | | | DEVICE CONFORMITY | |
|-----------|-------------|-------|-------|------------------------------|------|
| | MIN. | NOM. | MAX. | RANGE OF DEVIATION FROM 1KHz | |
| 100 | --- | -53.5 | --- | -3.0 | 0.0 |
| 1000 | -55.0 | -52.0 | -49.0 | 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. | 28.0 dB MAX. | 2800 | 4400 | 6800 |

| Revision | C.O. # | Implementation Date | RELEASE LEVEL | REVISION |
|----------|-----------|---------------------|---------------|----------|
| G | MI0105773 | 10-20-14 | Active | G |

| | | | |
|--|--|---------|----------|
| 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 |
| TITLE: MICROPHONE PERFORMANCE SPECIFICATION | | MMM | 12-22-05 |
| | | GJP | 1-2-06 |
| EM-27900-C46 SHT 2.1 | | APP. BY | DATE |
| | | GJP | 1-2-06 |

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