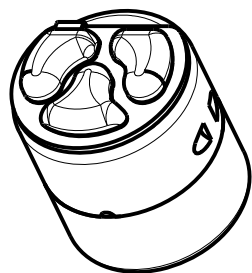
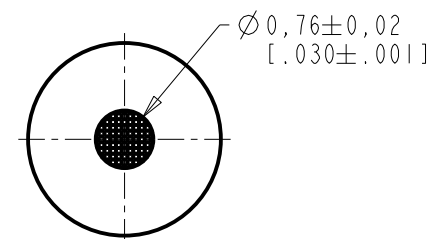
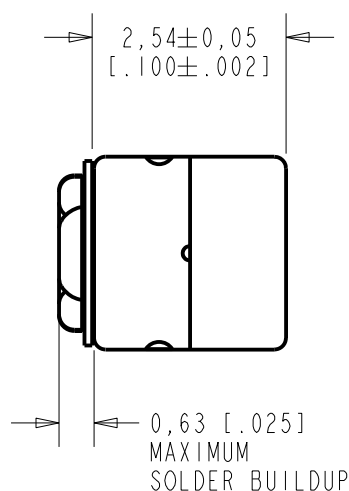
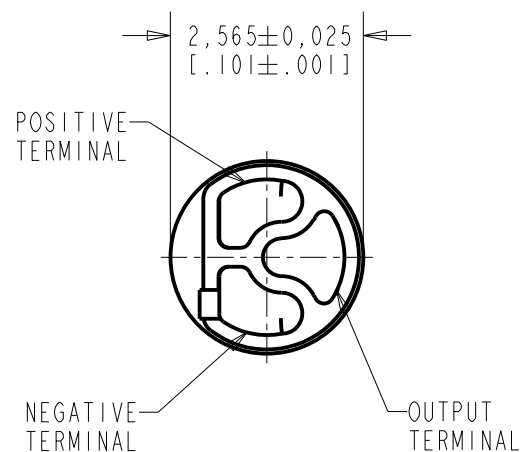


FC-23629-G17

SHT 1.1

NOTES:

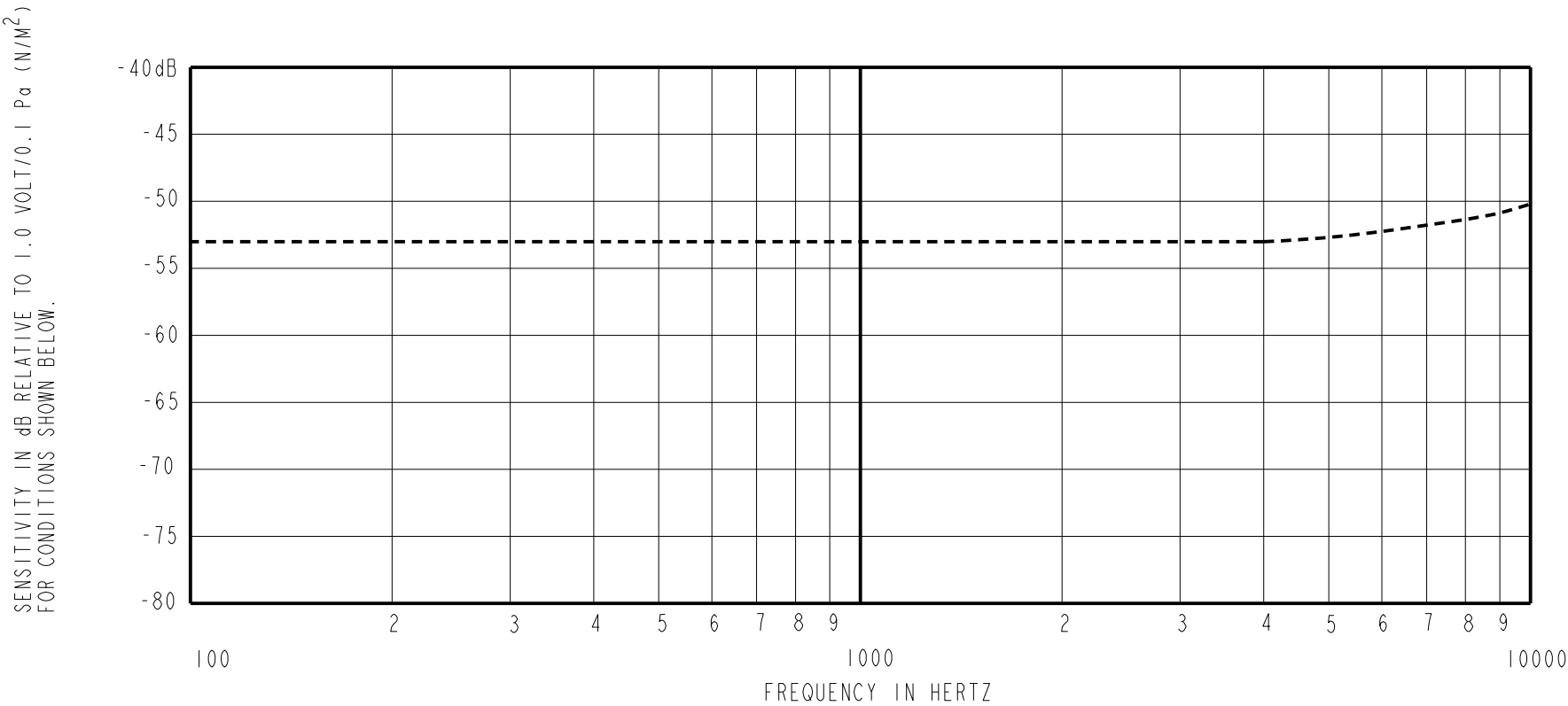
1. INCREASED PRESSURE AT THE SOUND INLET CAUSES A POSITIVE GOING VOLTAGE TO APPEAR AT THE OUTPUT TERMINAL, RELATIVE TO THE NEGATIVE TERMINAL.



DIMENSIONS IN MILLIMETERS [INCHES]

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| Revision             | C.O. #    | Implementation Date | RELEASE LEVEL | REVISION |
|----------------------|-----------|---------------------|---------------|----------|
|                      |           |                     | Active        | D        |
| D                    | MI0104555 | 5-2-12              |               |          |
|                      |           |                     |               |          |
| SCALE: 10:1          |           |                     | DR. BY        | DATE     |
| DO NOT SCALE DRAWING |           |                     | SDZ           | 2-05-09  |
|                      |           |                     | CK. BY        | DATE     |
| TITLE: MICROPHONE    |           |                     | GJP           | 2-18-09  |
|                      |           |                     | APP. BY       | DATE     |
| OUTLINE DRAWING      |           |                     | GJP           | 2-18-09  |
|                      |           |                     |               |          |
| FC-23629-G17         |           |                     |               |          |
| SHT 1.1              |           |                     |               |          |



| FREQUENCY | SENSITIVITY |       |       | DEVICE CONFORMITY            |      |
|-----------|-------------|-------|-------|------------------------------|------|
|           | MIN.        | NOM.  | MAX.  | RANGE OF DEVIATION FROM 1KHz |      |
| 100       | ---         | -53.0 | ---   | -3.0                         | +3.0 |
| 1000      | -56.0       | -53.0 | -50.0 | 0.0                          | 0.0  |
| 10000     | ---         | -50.0 | ---   | -0.0                         | +6.0 |

| GRADE | 1 kHz SENSITIVITY |       |
|-------|-------------------|-------|
|       | MIN.              | MAX.  |
| B     | -52.0             | -51.0 |
| C     | -53.0             | -52.0 |
| D     | -54.0             | -53.0 |
| E     | -55.0             | -54.0 |
| F     | -56.0             | -55.0 |

- NOTES:
- CASE CONNECTED TO NEGATIVE TERMINAL.
  - MICROPHONE TO BE FUNCTIONAL WITH 1.6 VDC SUPPLY.
  - TYPICAL SENSITIVITY TO HUMIDITY AT 1000Hz IS 0.06 dB/%RH
  - 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. |
| I2S           | 1.3V      | 50 μA MAX.              | 3 dB MAX.                                       | 28.0 dB MAX.                          | 2800                  | 4400 | 6800 |

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|                                                                                                                                                                                                              |           |                     |                             |        |          |         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------|-----------------------------|--------|----------|---------|
| Revision                                                                                                                                                                                                     | C.O. #    | Implementation Date | RELEASE LEVEL               |        | REVISION |         |
|                                                                                                                                                                                                              |           |                     | Active                      |        | D        |         |
|                                                                                                                                                                                                              |           |                     |                             |        |          |         |
| D                                                                                                                                                                                                            | MI0104555 | 5-2-12              |                             |        |          |         |
| 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     |         |
|                                                                                                                                                                                                              |           |                     |                             | SDZ    | 2-05-09  |         |
| TITLE: MICROPHONE<br><br>PERFORMANCE SPECIFICATION                                                                                                                                                           |           |                     | FC-23629-G17<br><br>SHT 2.1 |        | CK. BY   | DATE    |
|                                                                                                                                                                                                              |           |                     |                             |        | GJP      | 2-18-09 |
|                                                                                                                                                                                                              |           |                     |                             |        | APP. BY  | DATE    |
|                                                                                                                                                                                                              |           |                     |                             |        | GJP      | 2-18-09 |

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