





| FREQUENCY | SENSITIVITY |       |       | DEVICE CONFORMITY            |       |
|-----------|-------------|-------|-------|------------------------------|-------|
|           | MIN.        | NOM.  | MAX.  | RANGE OF DEVIATION FROM 1KHz |       |
| 100       | ---         | -63.0 | ---   | -10.0                        | -3.0  |
| 1000      | -59.0       | -56.0 | -53.0 | 0.0                          | 0.0   |
| ≈ 7400    | ---         | -46.0 | ---   | +7.0                         | +13.0 |

NOTES:

1. CASE CONNECTED TO NEGATIVE TERMINAL.
2. MICROPHONE TO BE FUNCTIONAL WITH 10 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 (Re 1 VOLT) | OUTPUT IMPEDANCE OHMS |      |      |
|---------------|-----------|-------------------------|---|--------------------------------|-----------------------|------|------|
|               |           |                         |   |                                | MIN.                  | NOM. | MAX. |
| 12Kn          | 1.3V      | 50 μA MAX.              | 3 dB MAX.                                       | 33.0 dB MAX.                   | 2800                  | 4400 | 6800 |

| Revision   | C.O. #    | Implementation Date | RELEASE LEVEL | REVISION |
|--|-----------|---------------------|---------------|----------|
| B  | M10102011 | 6-10-08             | Active        | B        |
| A  | M10101257 | 10-25-06            |               |          |
| 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 |           |                     |               |          |
| TITLE: MICROPHONE PERFORMANCE SPECIFICATION  |           |                     | EM-23069-000  |          |
|  |           |                     | SHT 2.1       |          |
|  |           |                     | CK. BY DATE   |          |
|  |           |                     | GJP 11-6-06   |          |
|  |           |                     | APP. BY DATE  |          |
|  |           |                     | GJP 11-6-06   |          |

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