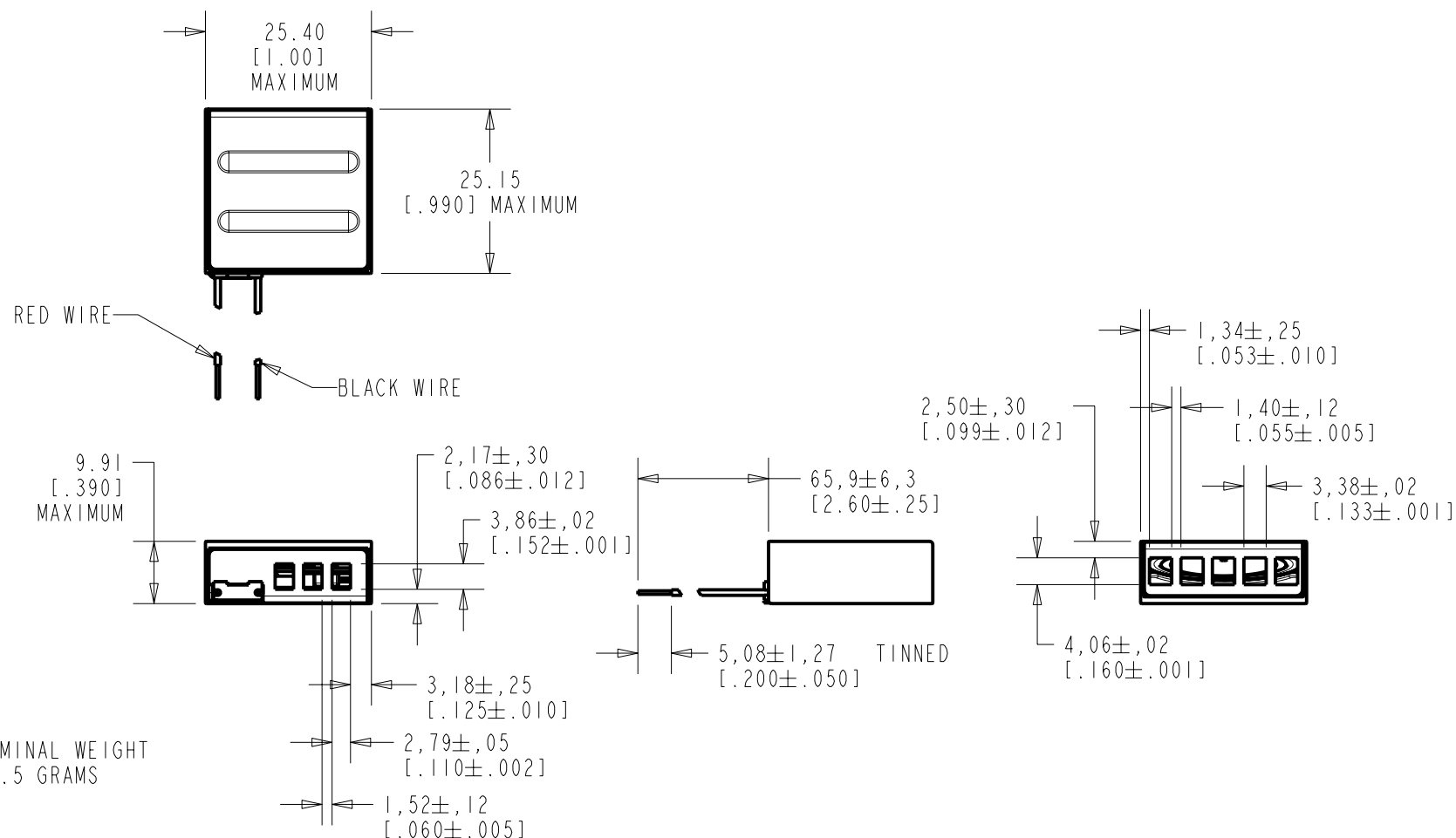


CB-23817-000  
SHT 1.1

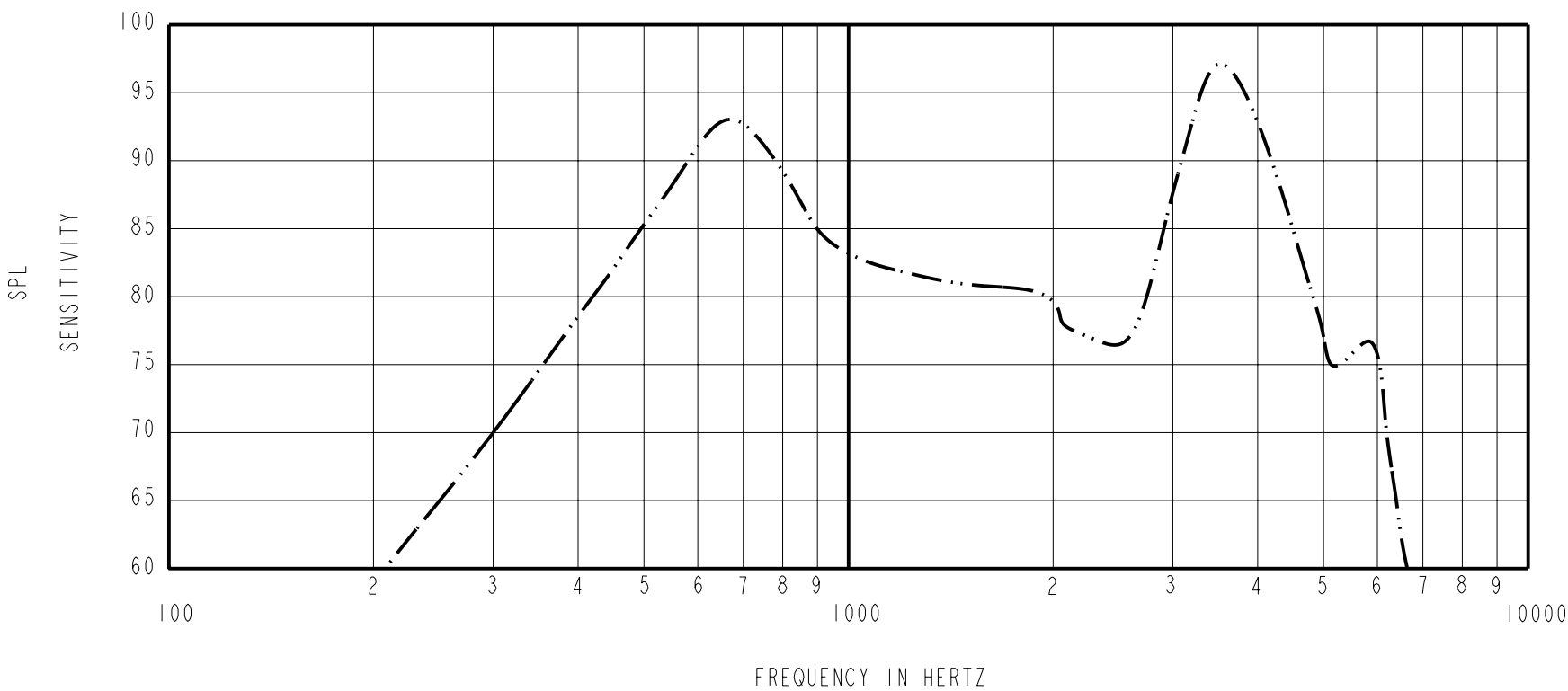


DIMENSIONS IN MILLIMETERS [INCHES]

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

| Revision | C.O. #    | Implementation Date | RELEASE LEVEL | REVISION |
|----------|-----------|---------------------|---------------|----------|
|          |           |                     | Released      | A        |
|          |           |                     |               |          |
| A        | MI0101232 | 9-19-06             |               |          |

|                      |  |             |              |
|----------------------|--|-------------|--------------|
| SCALE: 1:1           |  | DR. BY LSY  | DATE 9-19-06 |
| DO NOT SCALE DRAWING |  | CK. BY GJP  | DATE 9-21-06 |
| TITLE: SPEAKER       |  | APP. BY GJP | DATE 9-21-06 |
| OUTLINE DRAWING      |  | SHT 1.1     |              |



1. SENSITIVITY IN dB RELATIVE TO .0002 MICROBAR ( $2 \times 10^{-5} \text{ N/m}^2$ ) FOR THE CONDITIONS SHOWN IN #2 & #3 BELOW.
2. MEASUREMENTS MADE ON AXIS AT 2.54 cm NORMAL TO THE SOUND PORT UNDER FREE FIELD (ANECHOIC) CONDITIONS. THE REAR PORT IS VENTED INTO A 160 cm<sup>3</sup> DAMPED CAVITY FOR THIS MEASUREMENT.
3. ELECTRICAL SIGNAL (CONSTANT VOLTAGE):

|                  |                |
|------------------|----------------|
| SOURCE IMPEDANCE | < 0.5 OHMS     |
| VOLTAGE APPLIED  | 0.59 VOLTS RMS |

4. NOMINAL IMPEDANCE:

|                       |              |
|-----------------------|--------------|
| ACOUSTICAL CONDITIONS | SEE #2 ABOVE |
| ELECTRICAL CONDITIONS | SEE #3 ABOVE |
| IMPEDANCE AT 500 Hz   | 48 OHMS      |
| IMPEDANCE AT 1kHz     | 48 OHMS      |

5. TOTAL HARMONIC DISTORTION:

|                       |              |
|-----------------------|--------------|
| ACOUSTICAL CONDITIONS | SEE #2 ABOVE |
| ELECTRICAL CONDITIONS | SEE #3 ABOVE |
| FREQUENCY             | 500 Hz       |
| DISTORTION            | 10% MAXIMUM  |

6. NOMINAL DC RESISTANCE @ 20°C: 21.5 OHMS

7. SENSITIVITY

| FREQUENCY | MIN. | MAX. |
|-----------|------|------|
| 700       | 88.0 | ---  |
| 1000      | 80.0 | ---  |
| 4000      | 90.0 | ---  |

8. SURVIVES 50 FOOT SUBMERSION IN SALT WATER FOR 15 MINUTES AND 2 FOOT SUBMERSION IN SALT WATER FOR 24 HOURS. RETURN TO RATED SPECIFICATIONS AFTER DRY.

| Revision                                                                                                                                                                                                     | C.O. #    | Implementation Date | RELEASE LEVEL       | REVISION |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------|---------------------|----------|
|                                                                                                                                                                                                              |           |                     | Released            | A        |
|                                                                                                                                                                                                              |           |                     |                     |          |
| A                                                                                                                                                                                                            | MI0101232 | 9-19-06             |                     |          |
| 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 |           |                     | DR. BY              | DATE     |
|                                                                                                                                                                                                              |           |                     | LSY                 | 9-19-06  |
|                                                                                                                                                                                                              |           |                     | CK. BY              | DATE     |
|                                                                                                                                                                                                              |           |                     | GJP                 | 9-21-06  |
| TITLE: SPEAKER<br>PERFORMANCE SPECIFICATION                                                                                                                                                                  |           |                     | APP. BY             | DATE     |
|                                                                                                                                                                                                              |           |                     | GJP                 | 9-21-06  |
|                                                                                                                                                                                                              |           |                     | CB-23817-000<br>SHT |          |

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