

NOTES:

- 1 A POSITIVE GOING VOLTAGE AT TERMINAL 2, RELATIVE TO TERMINAL 1, CAUSES A DECREASE IN PRESSURE AT THE SOUND OUTLET.
- 2 LOCATED FROM TWO SURFACES FOR CUSTOMER CONVENIENCE. ONLY APPLICABLE FROM ONE SURFACE, NOT TO BE USED TOGETHER. HORIZONTAL LOCATION FOR TERMINAL CENTERED TO  $\pm 0,17$  [.007].



NOMINAL WEIGHT  
.35 GRAM

DIMENSIONS IN MILLIMETERS [INCHES]

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

| Revision             | C.O. #    | Implementation Date | RELEASE LEVEL | REVISION      |
|----------------------|-----------|---------------------|---------------|---------------|
| E                    | CI0116424 | 11-28-14            | <b>Active</b> | <b>E</b>      |
| D                    | CI0107030 | 1-30-08             |               |               |
| SCALE: 4:1           |           |                     | DR. BY: SDZ   | DATE: 7-05-06 |
| DO NOT SCALE DRAWING |           |                     | CK. BY: GJP   | DATE: 7-20-06 |
| TITLE: RECEIVER      |           | TEC-30006-000       | APP. BY: GJP  | DATE: 7-20-06 |
| OUTLINE DRAWING      |           | SHT 1.1             |               |               |

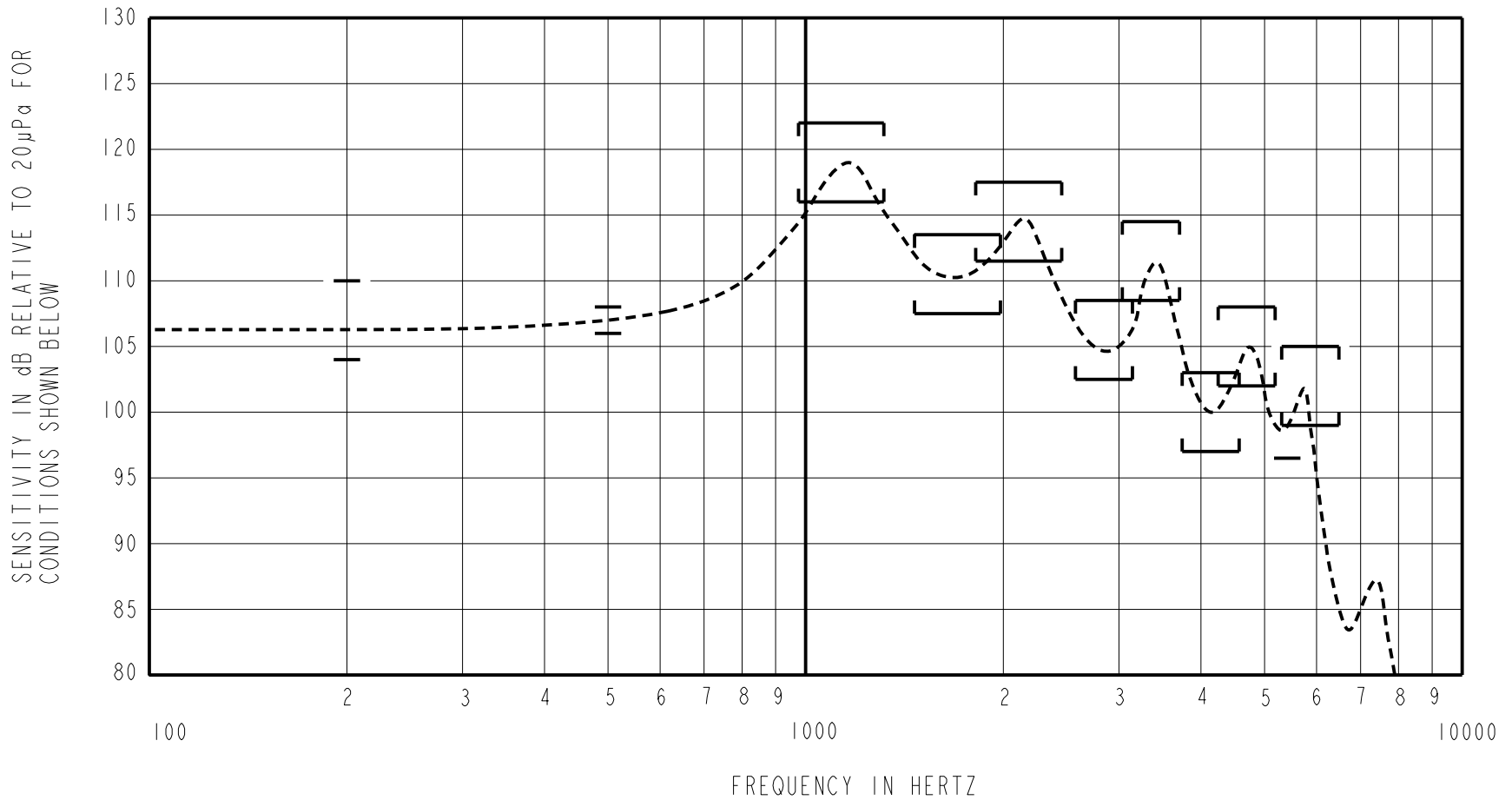
THIS UNIT IS A BALANCED ARMATURE RECEIVER INTENDED FOR USE IN BTE HEARING AIDS, AND IS 1/2 THE SIZE OF AN EF RECEIVER.

NO DAMPING

TEC-30006-000

SHEET 2.1

CONSTANT VOLTAGE DRIVE CONDITIONS



ACOUSTICAL

SENSITIVITY  
DEVICE WILL PRODUCE THE SPL LISTED BELOW UNDER TEST CONDITIONS DESCRIBED IN TABLE 3. NOMINAL SENSITIVITY AT 1000 Hz IS dB RELATIVE TO 20µPa. ALL OTHER VALUES IN dB RELATIVE TO THE SENSITIVITY AT 500 Hz.

| FREQUENCY (Hz) | MINIMUM | NOMINAL | MAXIMUM |
|----------------|---------|---------|---------|
| 200            | -3.0    | 0.0     | +3.0    |
| 500            | -1.0    | 107.0   | +1.0    |
| 975-1315       | +9.0    | +12.0   | +15.0   |
| 1465-1980      | +0.5    | +3.5    | +6.5    |
| 1815-2455      | +4.5    | +7.5    | +10.5   |
| 2575-3145      | -4.5    | -1.5    | +1.5    |
| 3035-3710      | +1.5    | +4.5    | +7.5    |
| 3745-4575      | -10.0   | -7.0    | -4.0    |
| 4250-5190      | -5.0    | -2.0    | +1.0    |
| 5412           | -10.5   | ---     | ---     |
| 5310-6490      | -8.0    | -5.0    | -2.0    |

TABLE 1

TOTAL HARMONIC DISTORTION  
DEVICE WILL NOT EXCEED TOTAL HARMONIC DISTORTION LEVELS LISTED BELOW.

| FREQUENCY (Hz) | AC DRIVE (V rms) | DC BIAS (mA) | LIMIT (%) |
|----------------|------------------|--------------|-----------|
| 382            | 0.154            | 0            | 5         |
| 573            | 0.154            | 0            | 5         |
| 573            | 0.308            | 0            | 10        |

TABLE 2

TEST CONDITIONS

|                        |   |
|------------------------|---|
| NOMINAL SOURCE VOLTAGE | 0.154 V rms, TO DELIVER 0.35 mVA AT 500 Hz  |
| SOURCE IMPEDANCE       | <1 Ohm  |
| TUBING                 | 8mm X 1mm ID + 28mm X 1.5mm ID EAR HOOK SIMULATOR + 25mm X 2mm ID TUBE + 18mm X 3mm ID TUBE |
| COUPLER CAVITY         | 2 cm <sup>3</sup> , SIMULATED ANSI S3.7 TYPE HA-3 (IEC 60318-5)                             |

TABLE 3

ELECTRICAL

|                      |               |
|----------------------|---------------|
| DC RESISTANCE        | 46 OHMS ± 10% |
| IMPEDANCE @ 500 Hz   | 62 OHMS ± 15% |
| INDUCTANCE @ 500 Hz  | 10.2 mH ± 15% |
| CAPACITANCE @ 10 MHz | 9.0 pF ± 20%  |

TABLE 4

ISOLATION: CASE WILL BE ELECTRICALLY ISOLATED FROM THE COIL CIRCUIT.

MECHANICAL

PORT LOCATION: 12N

SOLDER TYPE: SAC305

TEMPERATURE

OPERATING: SENSITIVITY WILL NOT VARY MORE THAN +1/-3 dB FROM -17°C TO 63°C

STORAGE: -40°C TO 63°C

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| Revision   | C.O. #    | Implementation Date | RELEASE LEVEL | REVISION     |
|--|-----------|---------------------|---------------|--------------|
| E  | C10116424 | 11-28-14            | Active        | E            |
| D  | C10107030 | 1-30-08             |               |              |
| 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: RECEIVER  |           |                     | TEC-30006-000 | DR. BY DATE  |
| PERFORMANCE SPECIFICATION  |           |                     | SHT 2.1       | SDZ 7-05-06  |
|  |           |                     |               | CK. BY DATE  |
|  |           |                     |               | GJP 7-20-06  |
|  |           |                     |               | APP. BY DATE |
|  |           |                     |               | GJP 7-20-06  |