

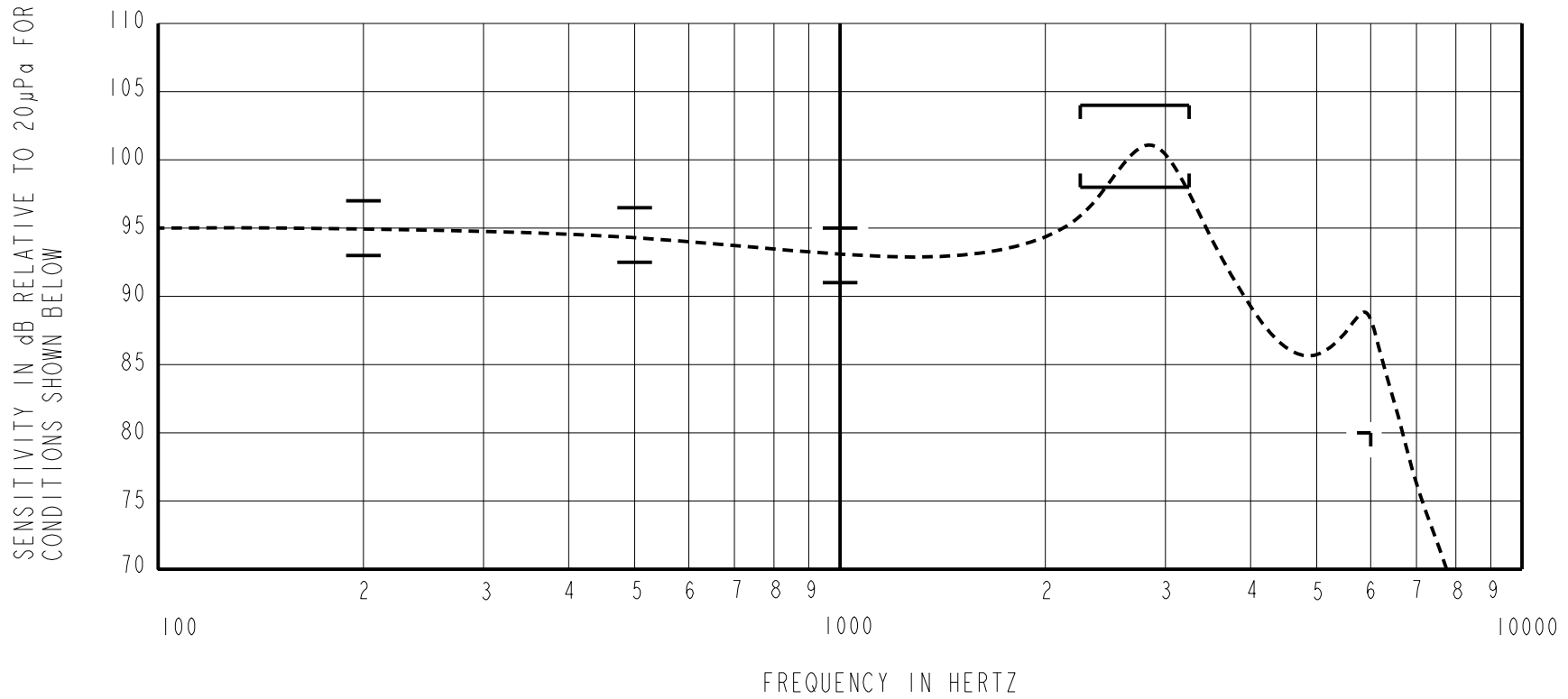


THE FK-26889-000 IS AN UNDAMPED MAGNETIC BALANCED ARMATURE RECEIVER INTENDED FOR USE IN CIC HEARING INSTRUMENTS. THIS MODEL HAS HIGH PERMEABILITY CUP, COVER, & SHIELD TO REDUCE MAGNETIC RADIATION, AND HAS THE CENTER TERMINAL ELECTRICALLY CONNECTED TO CASE.

NO DAMPING

FK-26889-000  
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 1kHz IS dB RELATIVE TO 20µPa. ALL OTHER VALUES IN dB RELATIVE TO THE SENSITIVITY AT 1kHz.

| FREQUENCY (Hz) | MINIMUM | NOMINAL | MAXIMUM |
|----------------|---------|---------|---------|
| 200            | 0.0     | +2.0    | +4.0    |
| 500            | -0.5    | +1.5    | +3.5    |
| 1000           | -2.0    | 93.0    | +2.0    |
| 2250 - 3250    | +5.0    | +8.0    | +11.0   |
| 6000           | 80.0    | ---     | ---     |

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 (%) |
|----------------|------------------|--------------|-----------|
| 920            | 0.367            | 0            | 5         |
| 1380           | 0.367            | 0            | 5         |
| 920            | 1.04             | 0            | 10        |

TABLE 2

**TEST CONDITIONS**

|                        |   |
|------------------------|---|
| NOMINAL SOURCE VOLTAGE | 0.367 V rms, 0 mA DC BIAS                                       |
| SOURCE IMPEDANCE       | <1 Ohm  |
| TUBING                 | 10mm [.394"] LONG, 1mm [.039"] I.D.                             |
| COUPLER CAVITY         | 2 CM <sup>3</sup> , SIMULATED ANSI S3.7 TYPE HA-3 (IEC-60318-5) |

TABLE 3

**ELECTRICAL**

|                    |                |
|--------------------|----------------|
| DC RESISTANCE      | 580 Ohms ± 10% |
| IMPEDANCE @ 500 Hz | 690 Ohms ± 15% |
| IMPEDANCE @ 1kHz   | 940 Ohms ± 15% |

TABLE 4

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

**MECHANICAL**

PORT LOCATION: 3S  
SOLDER TYPE: SAC305

**TEMPERATURE**

OPERATURE: SENSITIVITY WILL NOT VARY MORE THAN +1/-3 dB FROM -17°C TO 63°C.  
STORAGE: -40°C TO 63°C.

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

| Revision   | C.O. #    | Implementation Date | RELEASE LEVEL | REVISION |
|--|-----------|---------------------|---------------|----------|
| E  | C10114032 | 11-8-12             | <b>Active</b> | <b>E</b> |
| D  | C10111937 | 12-31-10            |               |          |
|  |           |                     |               |          |
| 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: <b>RECEIVER</b><br>PERFORMANCE SPECIFICATION  |           |                     | MMM           | 7-31-06  |
|  |           |                     | FK-26889-000  |          |
|  |           |                     | GJP           | 8-4-06   |
|  |           |                     | APP. BY       | DATE     |
|  |           |                     | GJP           | 8-4-06   |
|  |           |                     | SHT 2.1       |          |