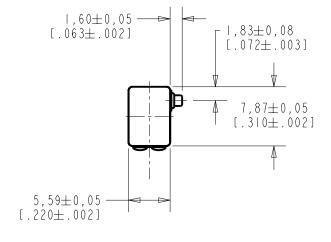
FEF-26790-102

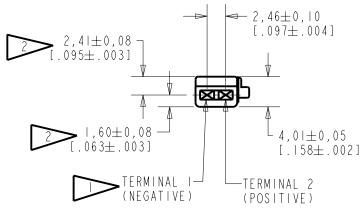
SHT I.I

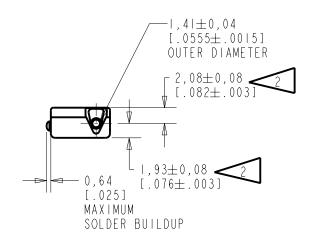
NOTES:

➤ A POSITIVE GOING VOLTAGE AT TERMINAL 2, RELATIVE TO TERMINAL I, CAUSES A DECREÁSE IN PRESSURE AT THE SOUND OUTLET.

➤ 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 .66 GRAMS

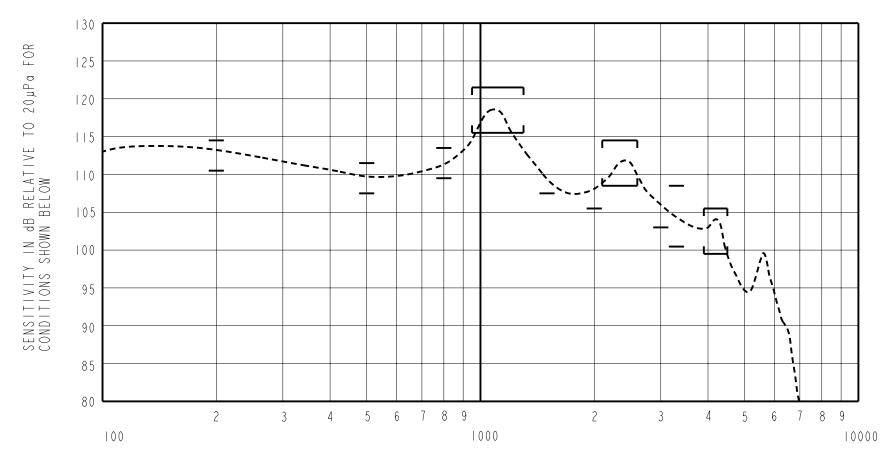
DIMENSIONS IN MILLIMETERS [INCHES]

| KNO | WLES   | ELEC     | TRONI | CS |
|-----|--------|----------|-------|----|
|     | ITASCA | ILLINOIS | USA   |    |

| Revision             | C.O. #                 | Implementation Date          | RELEASE LEVEL |                     | REVISION              |
|----------------------|------------------------|------------------------------|---------------|---------------------|-----------------------|
| В<br>А               | C10103605<br>C10103191 | 2 - 3 - 0 6<br>9 - 2 9 - 0 5 | Release       | d                   | B                     |
| SCALE:               |                        | 2:1                          |               | DR. BY              | DATE                  |
| DO NOT SCALE DRAWING |                        |                              | CRG<br>CK. BY | 9 - 29 - 05<br>DATE |                       |
| TITLE:               | RE                     | CEIVER                       | FEF-26790-102 | GJP<br>APP. BY      | 9 - 29 - 05<br>DATE   |
|                      | OUTL                   | INE DRAWING                  | SHT I.I       | GJP<br>ASIZE ERM    | 9 - 29 - 05<br>Rev: B |

FEF-26790-102 SHEET 2.1





## **ACOUSTICAL**

FREQUENCY IN HERTZ

SENSITIVITY DEVICE WILL PRODUCE THE SPL LISTED BELOW UNDER TEST CONDITIONS DESCRIBED IN TABLE 3. NOMINAL SENSITIVITY AT 500 Hz IS dB RELATIVE TO 20µPa. ALL OTHER VALUES IN dB RELATIVE TO THE SENSITIVITY AT 500 Hz EXCEPT MINIMUM LIMITS AT 1500, 2000, AND 3000 Hz (I.E., dB RE 20 μPα PER CUSTOMER REQUIREMENT).

| FREQUENCY (Hz) | MINIMUM | NOMINAL | MAXIMUM |
|----------------|---------|---------|---------|
| 200            | +   . 0 | +3.0    | +5.0    |
| 500            | -2.0    | 109.5   | +2.0    |
| 800            | 0.0     | +2.0    | +4.0    |
| 950-1300       | +6.0    | +9.0    | +12.0   |
| 1500           | 107.5   | -       | -       |
| 2000           | 105.5   | -       | -       |
| 2100-2600      | -1.0    | +2.0    | +5.0    |
| 3000           | 103.0   | -       | -       |
| 3300           | -9.0    | -5.0    | -1.0    |
| 3900-4500      | -10.0   | -7.0    | - 4 . 0 |

TABLE I

TOTAL HARMONIC DISTORTION

DEVICE WILL NOT EXCEED TOTAL HARMONIC DISTORTION LEVELS LISTED BELOW.

| FREQUENCY (Hz) | AC DRIVE (V rms) | DC BIAS (mA) | LIMIT (%) |
|----------------|------------------|--------------|-----------|
| 500            | 0.14             | 0            | 5         |
| 500            | 0.25             | 0            | 10        |

## TABLE 2

## TEST CONDITIONS

| NOMINAL SOURCE VOLTAGE | 0.14 V rms, 0 mA DC BIAS  |
|------------------------|---|
| SOURCE IMPEDANCE       | < I Ohm   |
| TUBING                 | 8mm x 1mm 1D + 28mm x 1.5mm 1D EAR HOOK SIMULATOR + 25mm x 2mm 1D TUBE + 18mm x 3mm 1D TUBE |
| COUPLER CAVITY         | 2 CM <sup>3</sup> , SIMULATED ANSI S3.7 TYPE HA-3 (IEC 126)                                 |

TABLE 3

## **ELECTRICAL**

| DC RESISTANCE      | 18 Ohms $\pm$ 10% |
|--------------------|-------------------|
| IMPEDANCE @ 500 Hz | 50 Ohms $\pm$ 15% |
| IMPEDANCE @ IkHz   | 88 Ohms $\pm$ 15% |

TABLE 4

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

TEMPERATURE: OPERATING RANGE FROM 0°C TO 63°C (SENSITVITY WILL NOT VARY BY MORE THAN ±3 dB WITHIN RANGE) SENSITIVITY AT 0°C IS 1.5dB LOWER THAN THE SENSITIVITY AT ROOM TEMPERATURE.

TITLE:

DELTA PEAK IS 1.8dB HIGHER AT BODY TEMPERATURE (37°C)

STORAGE RANGE FROM -40°C TO 63°C

| REVISION | RELEASE LEVEL | Implementation Date | C.O. #    | Revision |
|----------|---------------|---------------------|-----------|----------|
|          |               |                     |           |          |
| К        | l Released    | 2 - 3 - 06          | C10103605 | В        |
|          |               | 9-29-05             | C10103191 | Α        |
|          |               | 9 - 29 - 05         | C10103191 | А        |

PORT LOCATION: 2S

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

WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION | DR. BY CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION | CRG

RECEIVER

PERFORMANCE SPECIFICATION

| S 15 ALSO REQUIRED FOR | CRG     | 9-29-05 |
|------------------------|---------|---------|
|                        | CK. BY  | DATE    |
| FEF-26790-102          | GJP     | 9-29-05 |
| Li 20130 102           | APP. BY | DATE    |
| SHT 2.1                | GJP     | 9-29-05 |

DATE