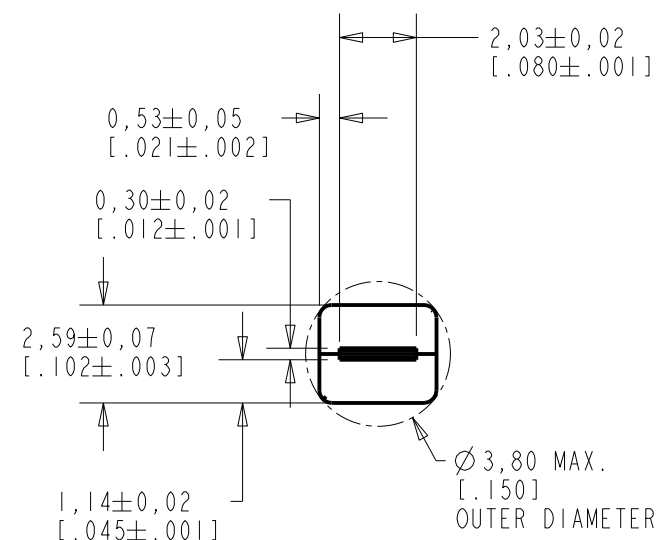
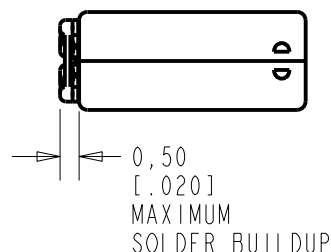
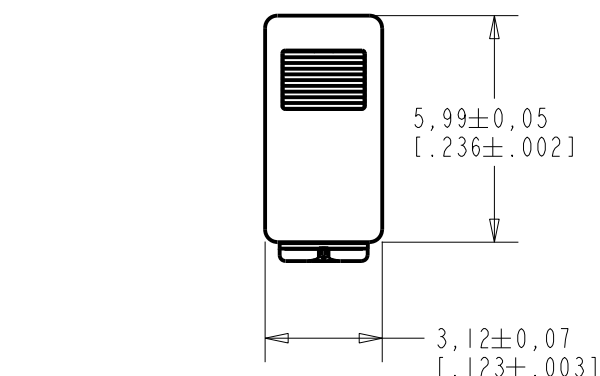


GD-31133-000

SHT 1.1

NOTES:

- 1 A POSITIVE GOING VOLTAGE AT TERMINAL 2, RELATIVE TO TERMINAL 1, CAUSES AN INCREASE IN PRESSURE AT THE SOUND OUTLET.
- 2 TERMINAL ELECTRICALLY CONNECTED TO CASE.
- 3 DIMENSION TO APPROXIMATE CENTER OF TERMINAL PAD.



SCALE 2:1  
0.16 GRAMS

DIMENSIONS IN MILLIMETERS [INCHES]

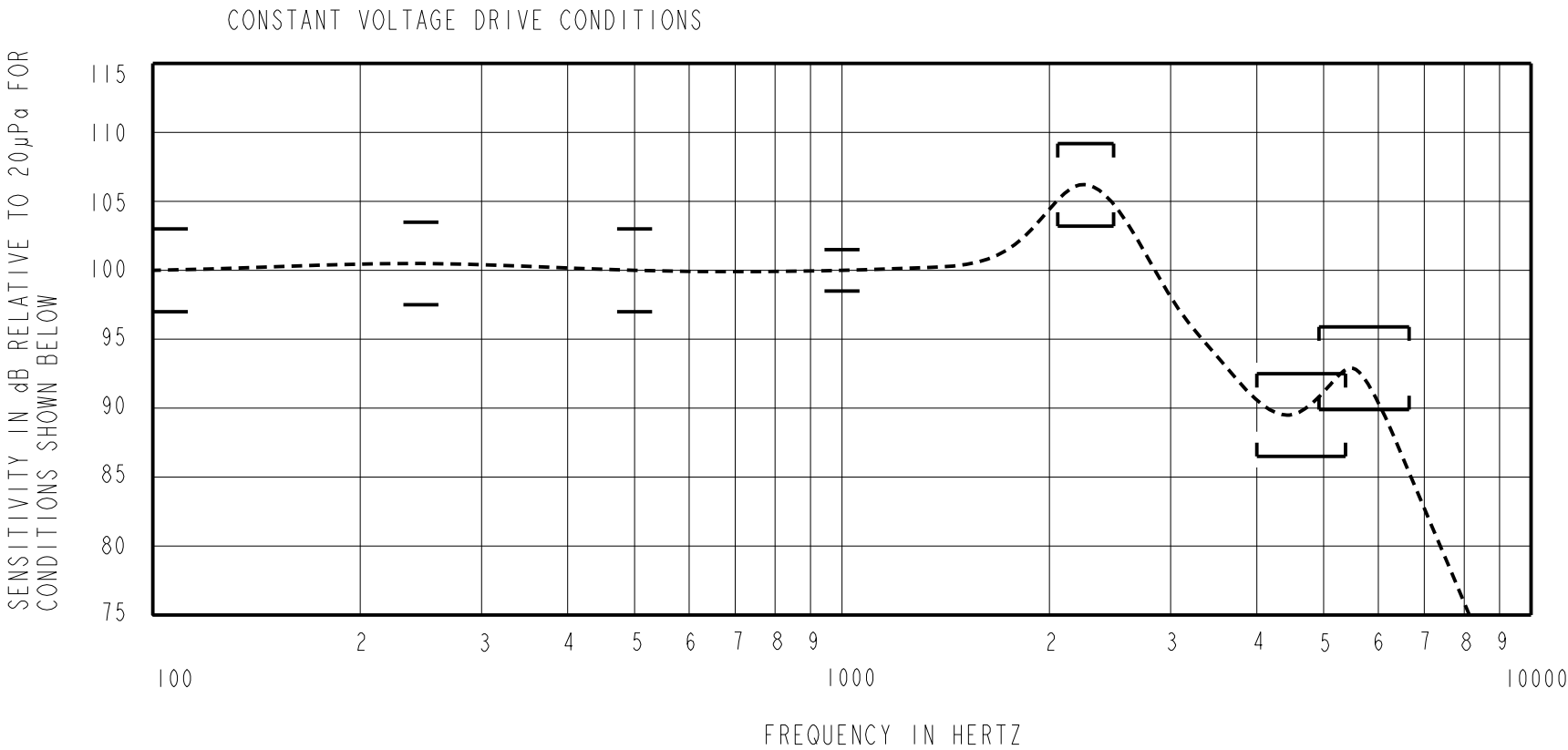
**KNOWLES ELECTRONICS**  
ITASCA, ILLINOIS U.S.A.

| Revision             | C.O. #    | Implementation Date | RELEASE LEVEL | REVISION |
|----------------------|-----------|---------------------|---------------|----------|
| C                    | C10113289 | 3-30-12             | Active        | C        |
| B                    | C10112587 | 6-28-11             |               |          |
| A                    | C10112084 | 2-11-11             |               |          |
| SCALE: 5:1           |           |                     | DR. BY        | DATE     |
| DO NOT SCALE DRAWING |           |                     | KL            | 2-11-11  |
| TITLE: RECEIVER      |           |                     | CK. BY        | DATE     |
| OUTLINE DRAWING      |           |                     | GIP           | 2-13-11  |
| CD-31133-000         |           |                     | APP. BY       | DATE     |
| SHT 1.1              |           |                     | GJP           | 2-13-11  |

INTENDED FOR USE IN CIC, RIC, AND MINI-BTE APPLICATIONS. THIS IS A PAIR OF GE RECEIVERS WITH VERY LOW VIBRATION IN ALL DIRECTIONS. ONE GE RECEIVER IS REVERSE MAGNETIZED FOR MAGNETIC LEAKAGE CONSIDERATIONS. BOTH DAUGHTER UNITS HAVE THE CENTER TERMINAL CONNECTED TO CASE.

NO DAMPING

CD-31133-000  
SHEET 2.1



ACOUSTICAL

SENSITIVITY DEVICE WILL PRODUCE THE SPL LISTED BELOW UNDER TEST CONDITIONS DESCRIBED IN TABLE 4. NOMINAL SENSITIVITY AT 1kHz IS dB RELATIVE TO 20μPa. ALL OTHER VALUES IN dB RELATIVE TO THE SENSITIVITY AT 1kHz.

| LIMIT TYPE | FREQUENCY (Hz) | MINIMUM | NOMINAL | MAXIMUM |
|------------|----------------|---------|---------|---------|
| REL        | 100            | -3      | 0       | 3       |
| REL        | 250            | -2.5    | 0.5     | 3.5     |
| REL        | 500            | -3      | 0       | 3       |
| REF        | 1000           | -1.5    | 100     | 1.5     |
| PEAK       | 2070 - 2530    | +3.2    | 6.2     | 9.2     |
| VALLEY     | 4000 - 5400    | -13.5   | -10.5   | 7.5     |
| PEAK       | 4930 - 6670    | -10.1   | -7.1    | -4.1    |

TABLE 1

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

| FREQUENCY (Hz) | AC DRIVE (Vrms) | DC BIAS (V) | LIMIT (%) |
|----------------|-----------------|-------------|-----------|
| 767            | 0.172           | 0           | 3         |
| 1150           | 0.172           | 0           | 3         |
| 767            | 0.484           | 0           | 8         |
| 1150           | 0.484           | 0           | 8         |

TABLE 2

MAXIMUM OUTPUT LEVEL (TYPICAL)

| POWER (mW) | 500 Hz SPL (dB) | REQUIRED VOLTAGE (Vrms) | Peak SPL (dB) | REQUIRED VOLTAGE (Vrms) |
|------------|-----------------|-------------------------|---------------|-------------------------|
| 10         | 114.0           | 0.9                     | 121.0         | 1.3                     |
| 50         | 117.0           | 2.0                     | 123.0         | 2.5                     |

TABLE 3

TEST CONDITIONS

|                        |                                                                 |
|------------------------|-----------------------------------------------------------------|
| NOMINAL SOURCE VOLTAGE | 0.172 Vrms, 0 mA DC BIAS                                        |
| SOURCE IMPEDANCE       | <1 Ohm                                                          |
| TUBING                 | 10 mm [.394"] LONG X 1 mm [.039"] I.D. ("ITE")                  |
| COUPLER CAVITY         | 2 CM <sup>3</sup> , SIMULATED ANSI S3.7 TYPE HA-3 (IEC 60318-5) |

TABLE 4

ELECTRICAL

|                      |                  |
|----------------------|------------------|
| DC RESISTANCE @ 20°C | 78.9 Ohms ± 10%  |
| IMPEDANCE @ 500 Hz   | 87.3 Ohms ± 15%  |
| IMPEDANCE @ 1 kHz    | 105.2 Ohms ± 15% |
| INDUCTANCE @ 500 Hz  | 8.5 mH TYPICAL   |
| CAPACITANCE @ 10 MHz | 4.6 pF TYPICAL   |

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

SHOCK RESISTANCE: 90% SURVIVAL RATE WITH THD @ 1/3 PEAK FREQUENCY LESS THAN 10%, THD @ 1/2 PEAK FREQUENCY LESS THAN 20% AND LESS THAN 3dB CHANGE IN SENSITIVITY AT 1kHz WHEN SUBJECTED TO 15 kg.

KNOWLES ELECTRONICS  
ITASCA, ILLINOIS U.S.A.

| Revision                                                                                                                                                                                                     | C.O. #    | Implementation Date | RELEASE LEVEL           | REVISION                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------|-------------------------|-----------------------------------|
| C                                                                                                                                                                                                            | C10113289 | 3-30-12             | Active                  | C                                 |
| B                                                                                                                                                                                                            | C10112587 | 6-28-11             |                         |                                   |
| A                                                                                                                                                                                                            | C10112084 | 2-11-11             |                         |                                   |
| 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<br>KL            | DATE<br>2-11-11                   |
| TITLE: RECEIVER                                                                                                                                                                                              |           |                     | CK. BY<br>GJP           | DATE<br>2-13-11                   |
| PERFORMANCE SPECIFICATION                                                                                                                                                                                    |           |                     | CD-31133-000<br>SHT 2.1 | APP. BY<br>GJP<br>DATE<br>2-13-11 |

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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