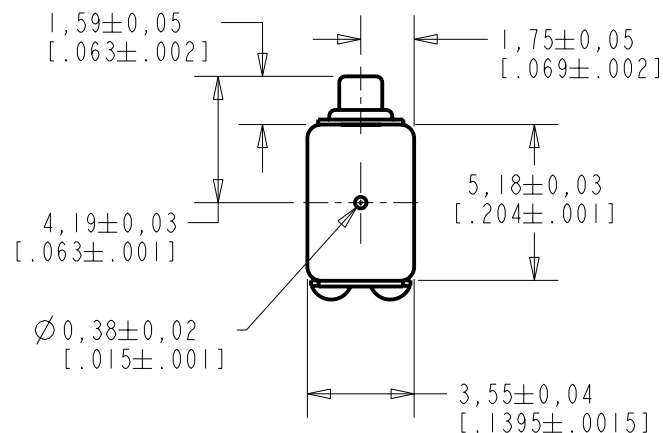
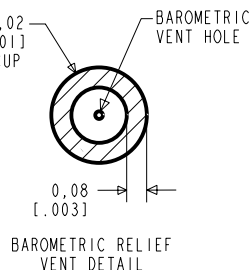


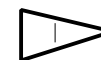
FFC-26863-105

SHT 1.1

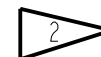
$\varnothing 0,38 \pm 0,02$   
[.015 $\pm$ .001]  
HOLE IN CUP



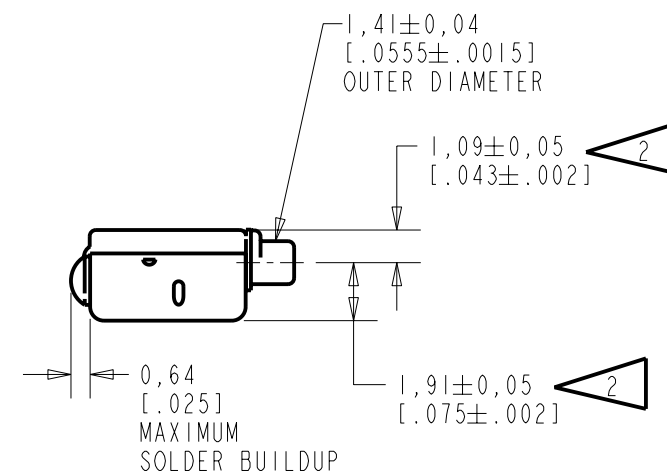
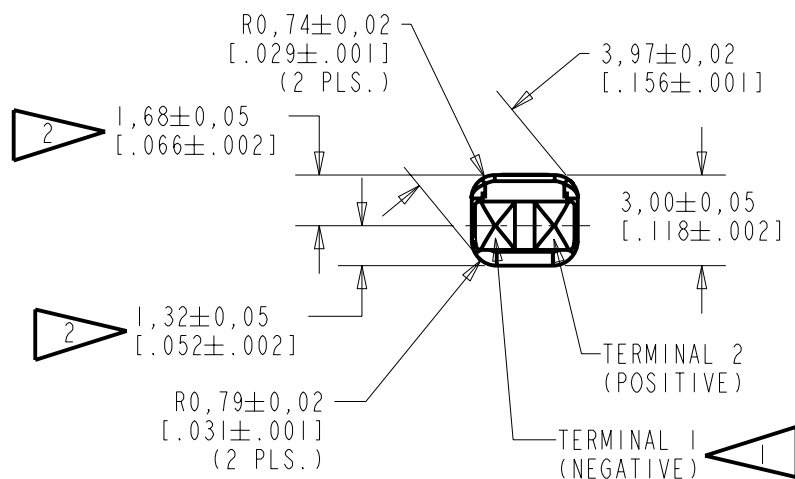
## NOTES:



A POSITIVE GOING VOLTAGE AT TERMINAL 2, RELATIVE TO TERMINAL 1, CAUSES A DECREASE IN PRESSURE AT THE SOUND OUTLET.



LOCATED FROM TWO SURFACES FOR CUSTOMER CONVENIENCE. ONLY APPLICABLE FROM ONE SURFACE, NOT TO BE USED TOGETHER.



SCALE 2:1

NOMINAL WEIGHT  
.23 GRAMS

DIMENSIONS IN MILLIMETERS [INCHES]

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

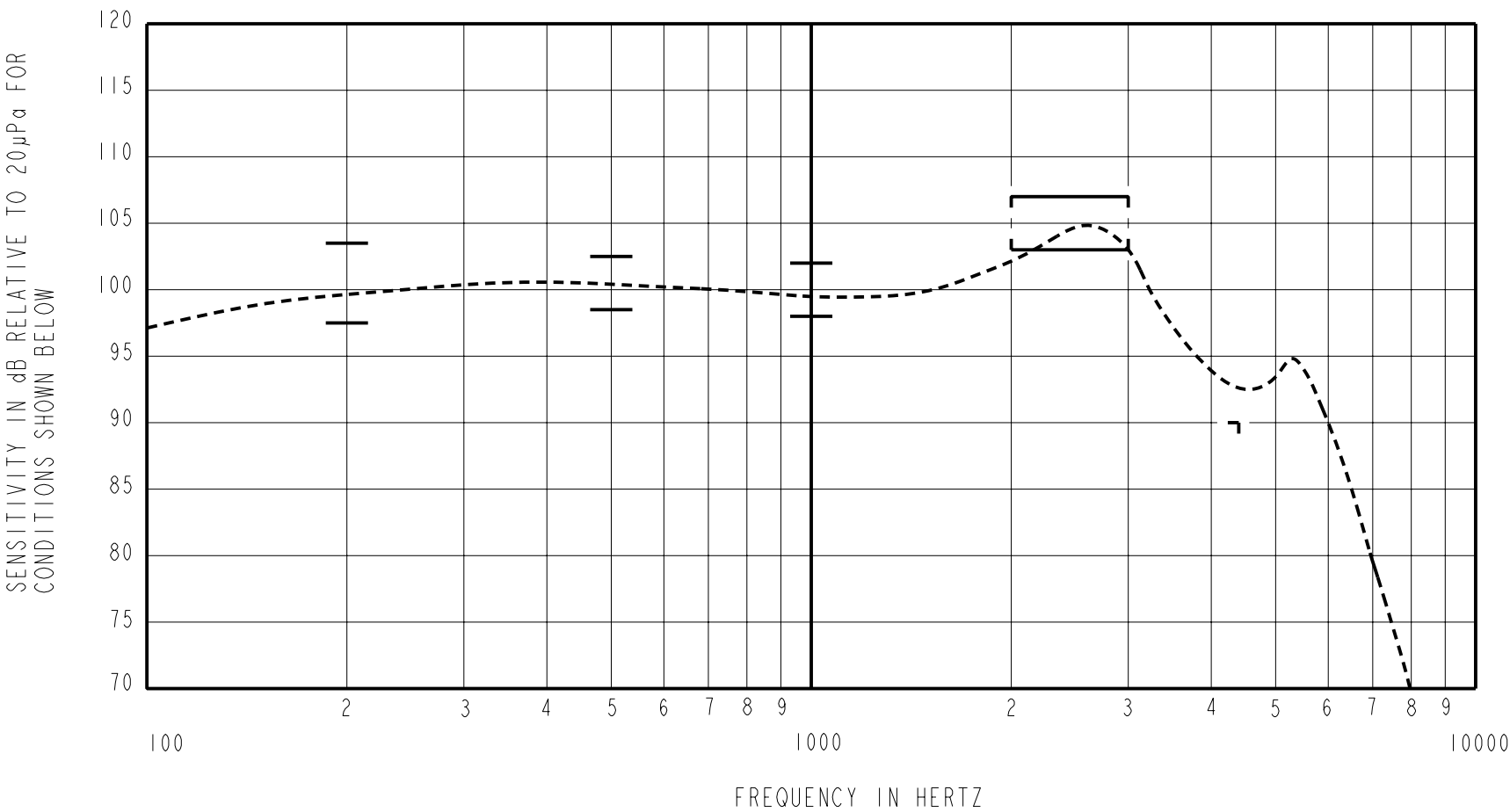
| Revision             | C.O. #    | Implementation Date | RELEASE LEVEL | REVISION     |
|----------------------|-----------|---------------------|---------------|--------------|
|                      |           |                     | Released      | D            |
|                      |           |                     |               |              |
| D                    | CI0105532 | 3-30-07             |               |              |
| SCALE: 4:1           |           |                     | DR. BY AB     | DATE 1-12-06 |
| DO NOT SCALE DRAWING |           |                     | CK. BY GJP    | DATE 1-16-06 |
| TITLE: RECEIVER      |           | FFC-26863-105       |               | APP. BY GJP  |
| OUTLINE DRAWING      |           | SHT 1.1             |               | DATE 1-16-06 |

THE FFC-26863-105 IS A FERROFLUID DAMPED AND EXTERNALLY VENTED FC-26170-000 RECEIVER WITH A PEAK OF 5dB RELATIVE TO THE SENSITIVITY AT 1kHz UNDER CONSTANT VOLTAGE DRIVE CONDITIONS.

FERROFLUID AND  
TYPE III DAMPING

FFC-26863-105  
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            | -2.5    | +0.5    | +3.5    |
| 500            | -1.5    | +0.5    | +2.5    |
| 1000           | -2.0    | 100.0   | +2.0    |
| 2100 - 3100    | +3.0    | +5.0    | +7.0    |
| 4400           | -10.0   | ---     | ---     |

PORT LOCATION: 12C

TABLE 1

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

| FREQUENCY (Hz) | AC DRIVE (V rms) | DC BIAS (V) | LIMIT (%) |
|----------------|------------------|-------------|-----------|
| 500            | 0.98             | 0           | 10        |
| 870            | 0.49             | 0           | 5         |
| 1300           | 0.49             | 0           | 5         |

TABLE 2

TEST CONDITIONS

|                        |                                                             |
|------------------------|-------------------------------------------------------------|
| NOMINAL SOURCE VOLTAGE | 0.49 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 126) |

TABLE 3

ELECTRICAL

|                    |                |
|--------------------|----------------|
| DC RESISTANCE      | 540 Ohms ± 10% |
| IMPEDANCE @ 500 Hz | 640 Ohms ± 15% |
| IMPEDANCE @ 1kHz   | 845 Ohms ±15%  |

TABLE 4

ISOLATION: CASE WILL BE ELECTRICALLY ISOLATED FROM THE COIL CIRCUIT.  
BAROMETRIC RELIEF: THE AIR FLOW THROUGH THE BAROMETRIC RELIEF VENT TO BE 1.0 TO 2.5 cc/MIN WHEN AIR PRESSURE OF 15 INCHES WATER (3736 Pa) IS APPLIED TO AT THE PORT APERTURE.

TEMPERATURE: OPERATING RANGE FROM 0°C TO 63°C (SENSIVITY WILL NOT VARY BY MORE THAN ±3 dB WITHIN RANGE)  
SENSITIVITY AT 0°C IS 2dB LOWER THAN THE SENSITIVITY AT ROOM TEMPERATURE.  
STORAGE RANGE FROM -40°C TO 63°C

KNOWLES ELECTRONICS  
ITASCA, ILLINOIS U.S.A.

| Revision                                                                                                                                                                                                     | C.O. #    | Implementation Date | RELEASE LEVEL            | REVISION                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------|--------------------------|-----------------------------------|
|                                                                                                                                                                                                              |           |                     | Released                 | D                                 |
|                                                                                                                                                                                                              |           |                     |                          |                                   |
| D                                                                                                                                                                                                            | C10105532 | 3-30-07             |                          |                                   |
| 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>AB             | DATE<br>1-12-06                   |
| TITLE: RECEIVER                                                                                                                                                                                              |           |                     | CK. BY<br>GJP            | DATE<br>1-16-06                   |
| PERFORMANCE SPECIFICATION                                                                                                                                                                                    |           |                     | FFC-26863-105<br>SHT 2.1 | APP. BY<br>GJP<br>DATE<br>1-16-06 |