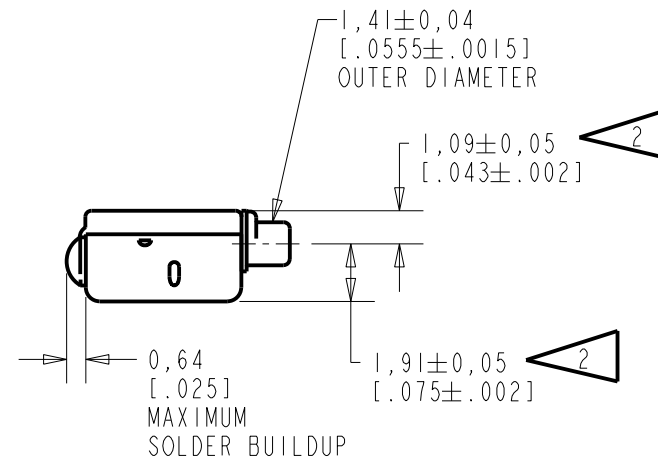
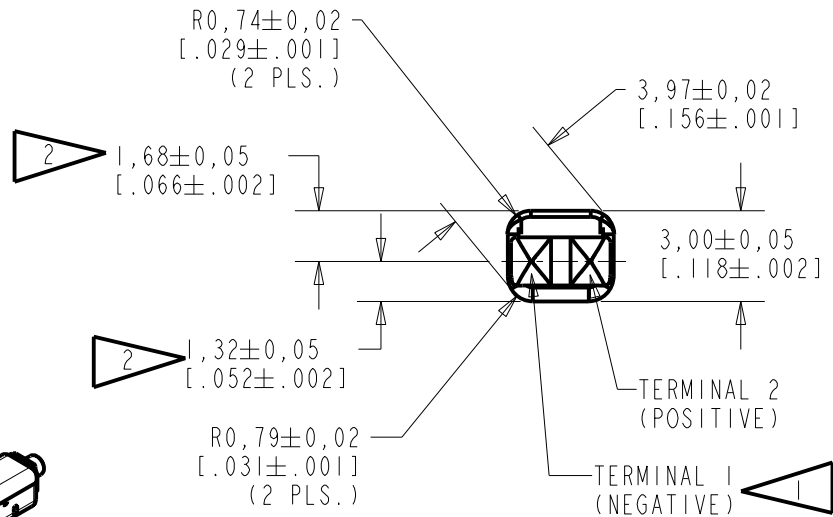
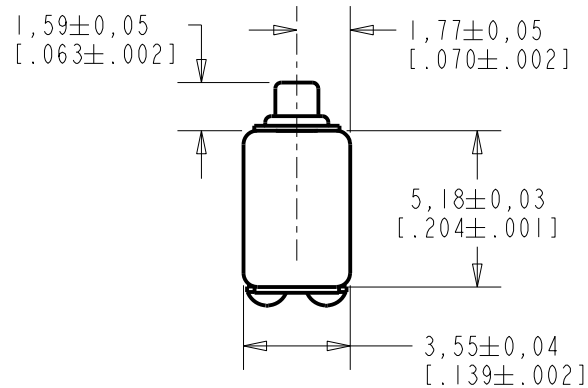


FFC-23981-104

SHT 1.1

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.



SCALE 2:1

NOMINAL WEIGHT
.23 GRAMS

DIMENSIONS IN MILLIMETERS [INCHES]

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			Active	D
D	CI0112708	9-2-11		

SCALE:

4:1

DO NOT SCALE DRAWING

TITLE:

RECEIVER

OUTLINE DRAWING

FFC-23981-104

SHT 1.1

DR. BY

DATE

MMM

9-30-05

CK. BY

DATE

GJP

10-3-05

APP. BY

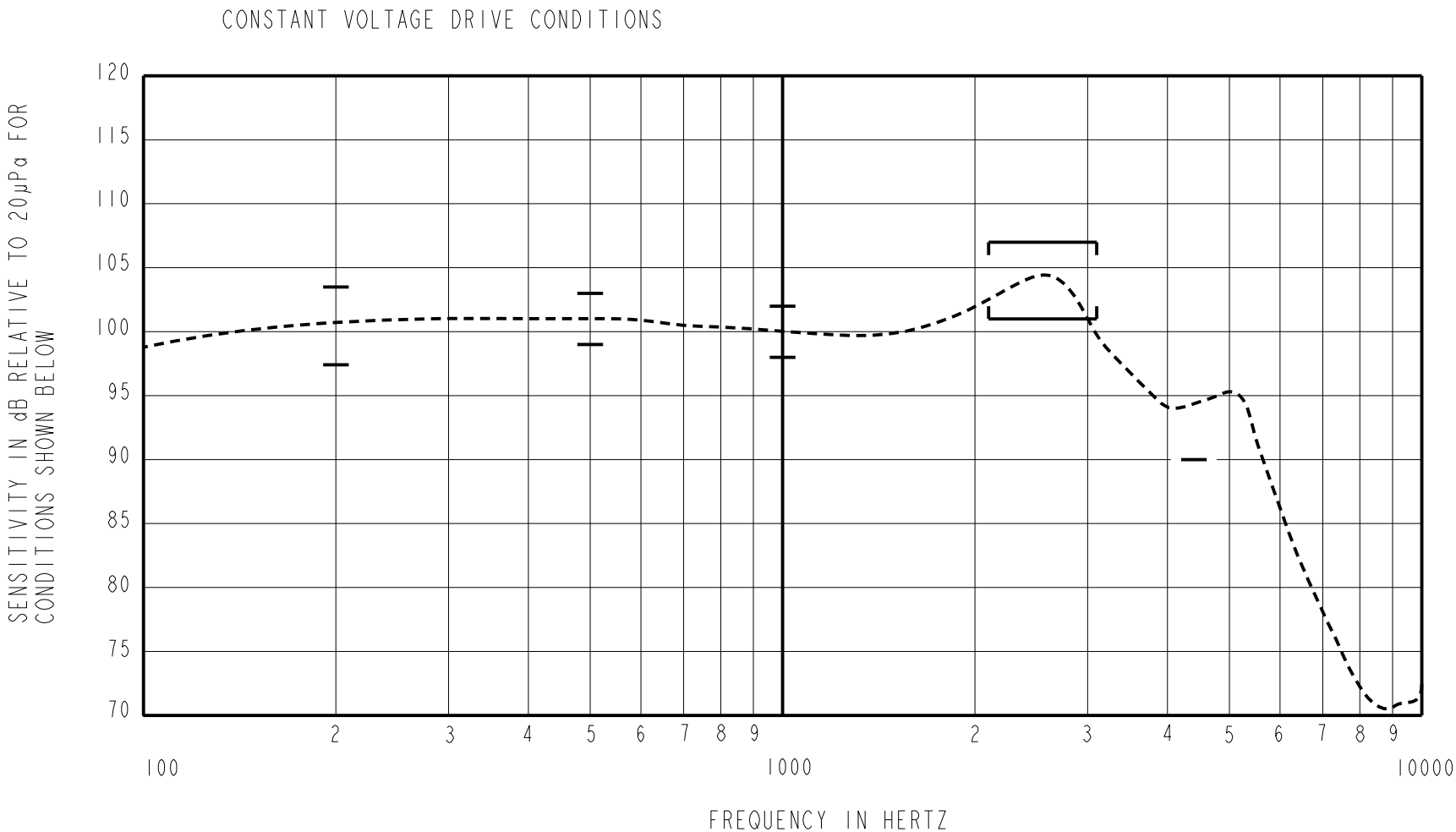
DATE

GJP

10-3-05

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

THE RECEIVER IS A FERROFLUID DAMPED RECEIVER WHICH IS SIMILAR TO FFC-26654-104 WITH A PEAK OF 4 dB RELATIVE TO THE SENSITIVITY AT 1 kHz UNDER 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	-1.0	+1.0	+3.0
1000	-2.0	100.0	+2.0
2100 - 3100	+1.0	+4.0	+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	0.42	0	10
870	0.15	0	6
1300	0.15	0	6

TABLE 2

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.15 V rms, 0 mA DC BIAS
SOURCE IMPEDANCE	<1 Ohm
TUBING	10mm [.394"] LONG, 1mm [.039"] I.D.
COUPLER CAVITY	2 CM ³ , SIMULATED ANSI S3.7 TYPE HA-3 (IEC 60318-5)

TABLE 3

ELECTRICAL

DC RESISTANCE	56 Ohms ± 10%
IMPEDANCE @ 500 Hz	69 Ohms ± 15%
IMPEDANCE @ 1kHz	96 Ohms ±15%

TABLE 4

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

TEMPERATURE: OPERATING RANGE FROM 0°C TO 63°C (SENSITIVITY WILL NOT VARY BY MORE THAN ±3 dB WITHIN RANGE)
SENSITIVITY AT 0°C IS 2dB LOWER THAN THE SENSITIVITY AT ROOM TEMPERATURE.
DELTA PEAK IS 1.5dB HIGHER AT BODY TEMPERATURE (37°C)
STORAGE RANGE FROM -40°C TO 63°C

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			Active	D
D	C10112708	9-2-11		
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 MMM	DATE 9-30-05
TITLE: RECEIVER PERFORMANCE SPECIFICATION			CK. BY GJP	DATE 10-3-05
			APP. BY	DATE
			GJP	10-3-05
			FFC-23981-104 SHT 2.1	