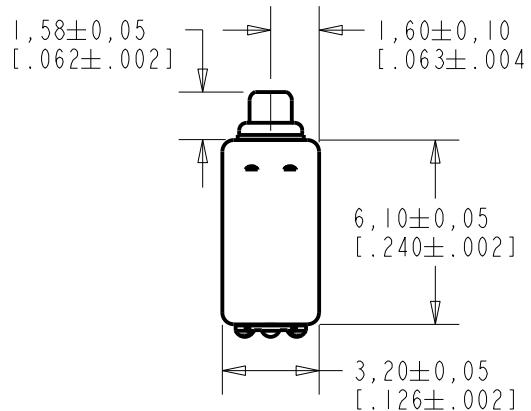


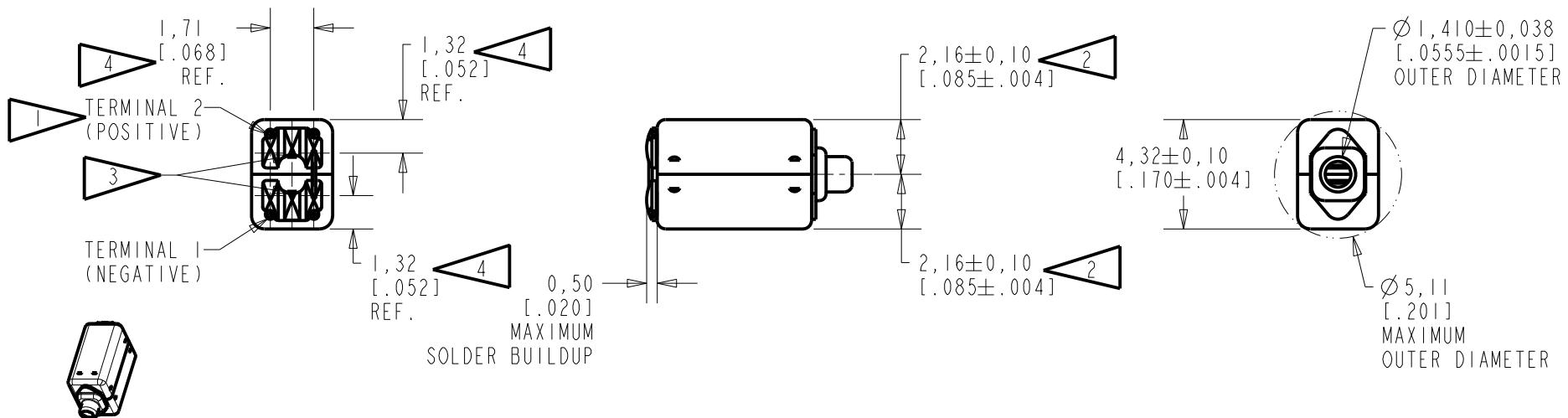
CR-31502-000

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 SURFACE FOR CUSTOMER CONVENIENCE. ONLY APPLICABLE FROM ONE SURFACE, NOT TO BE USED TOGETHER.
- 3 TERMINAL ELECTRICALLY CONNECTED TO CASE.
- 4 DIMENSION TO APPROXIMATE CENTER OF TERMINAL PAD.



SCALE 2:1
NOMINAL WEIGHT
0.25 GRAMS

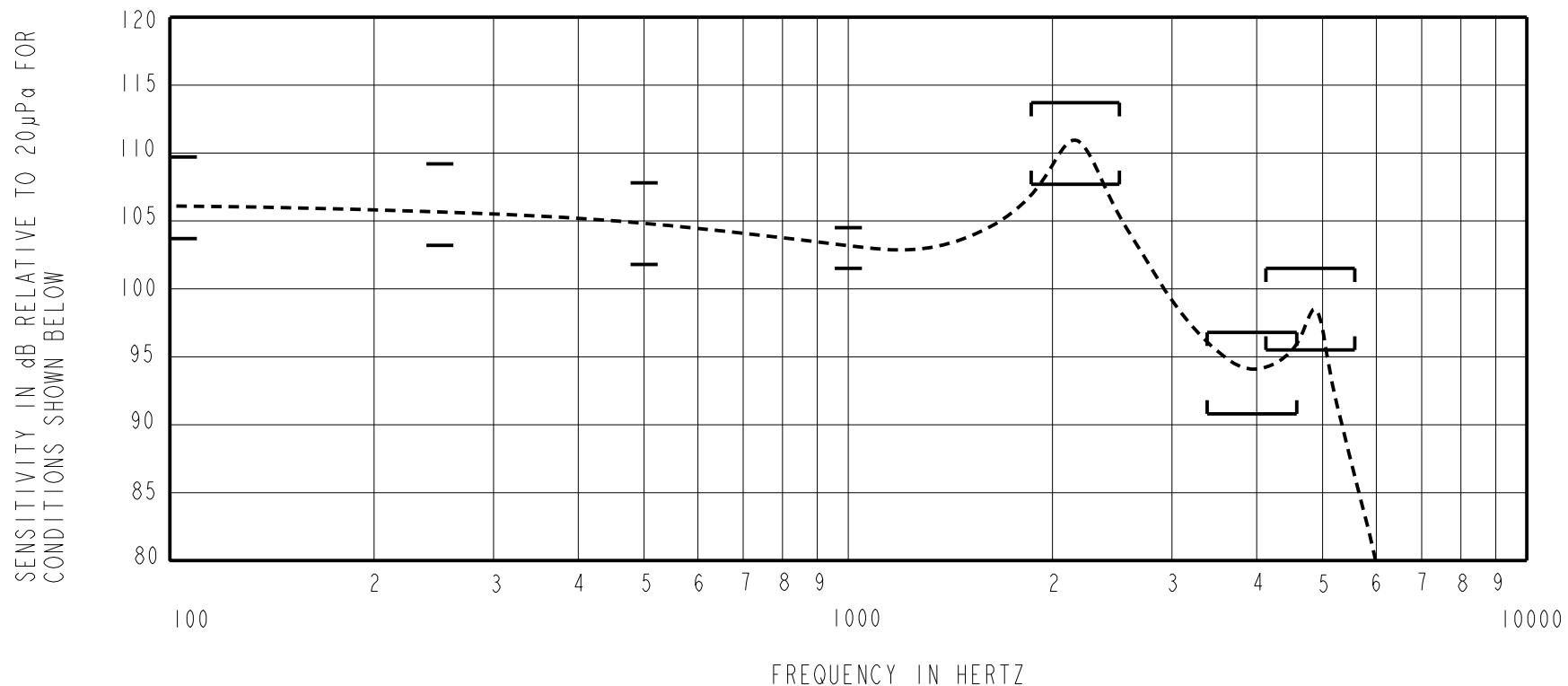
DIMENSIONS IN MILLIMETERS [INCHES]

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
A	C10113459	5-21-12	Active	A

SCALE:	4:1	DR. BY	DATE
	DO NOT SCALE DRAWING	OQ	5-21-12
TITLE:	RECEIVER	CK. BY	DATE
	CR-31502-000	GJP	5-23-12
	OUTLINE DRAWING	APP. BY	DATE
		GJP	5-23-12

CONSTANT VOLTAGE DRIVE CONDITIONS



ACOUSTICAL

SENSITIVITY

DEVICE WILL PRODUCE THE SPL LISTED BELOW UNDER TEST CONDITIONS DESCRIBED IN TABLE 4. NOMINAL SENSITIVITY AT 1kHz IS dB RELATIVE TO $20\mu\text{Pa}$. ALL OTHER VALUES IN dB RELATIVE TO THE SENSITIVITY AT 1kHz.

LIMIT TYPE	FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
REL	100	+0.7	+3.7	+6.7
REL	250	+0.2	+3.2	+6.2
REL	500	-1.2	+1.8	+4.8
REF	1000	-1.5	103.0	+1.5
PEAK 1	1860 - 2510	+4.7	+7.7	+10.7
VALLEY 1	3380 - 4580	-12.2	-9.2	-6.2
PEAK 2	4125 - 5580	-7.5	-4.5	-1.5

TABLE 1

TOTAL HARMONIC DISTORTION

DEVICE WILL NOT EXCEED TOTAL HARMONIC DISTORTION LEVELS LISTED BELOW.

FREQUENCY (Hz)	AC DRIVE (Vrms)	DC BIAS (V)	LIMIT (%)
1/3 PEAK (TYP. 728)	0.158	0	3
1/2 PEAK (TYP. 1082)	0.158	0	3
1/3 PEAK (TYP. 728)	0.446	0	8
1/2 PEAK (TYP. 1082)	0.446	0	8

TABLE 2

MAXIMUM OUTPUT LEVEL

POWER (mW)	500 Hz SPL (dB)	REQUIRED VOLTAGE (Vrms)	Peak SPL (dB)	REQUIRED VOLTAGE (Vrms)
10	118.1	0.98	128.4	1.83

TABLE 3

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.158 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 ³ , SIMULATED ANSI S3.7 TYPE HA-3 (IEC 60318-5)
MAXIMUM DRIVE VOLTAGE	2.19 Vrms

TABLE 4

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
A	C10113459	5-21-12	Active	A

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

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

TITLE: RECEIVER CR-31502-000
PERFORMANCE SPECIFICATION SHT 2.1

DR. BY	DATE
OQ	5-21-12
CK. BY	DATE
GJP	5-23-12
APP. BY	DATE
GJP	5-23-12

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