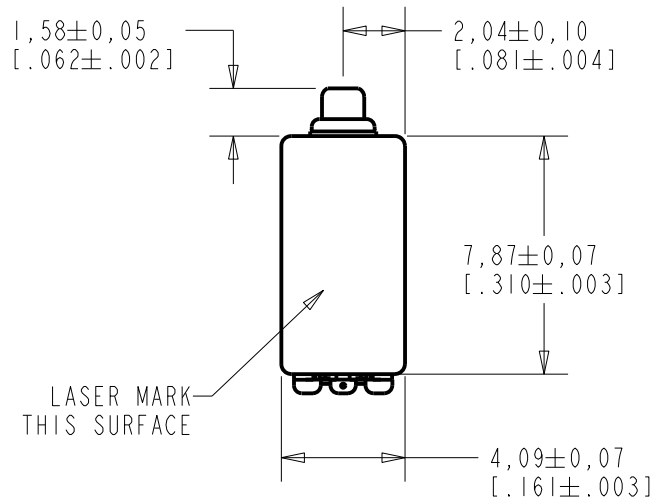


HODTEC-32024-000
SHT 1.1

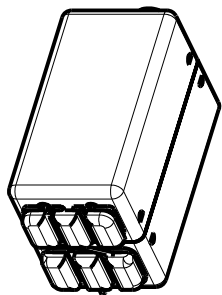
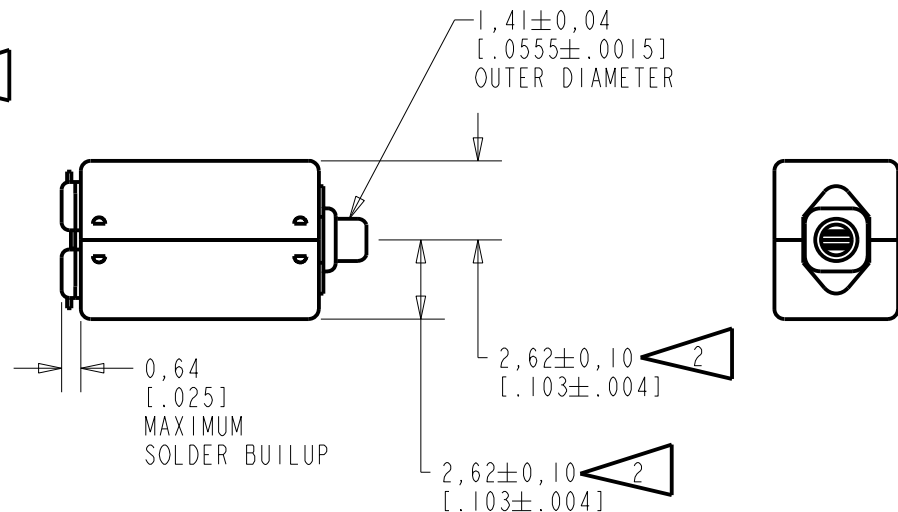
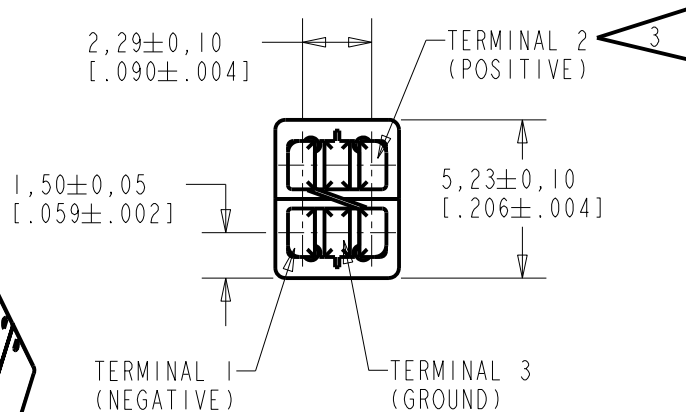


NOTES:

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 SURFACES FOR CUSTOMER CONVENIENCE. ONLY APPLICABLE FROM ONE SURFACE, NOT TO BE USED TOGETHER. HORIZONTAL LOCATION FOR TERMINAL CENTERED TO $\pm 0,17$ [.007].

3. RECEIVERS WIRED IN ELECTRICAL SERIES WHEN CONNECTED TO TERMINAL 1 AND TERMINAL 2.



NOMINAL WEIGHT
.71 GRAMS

DIMENSIONS IN MILLIMETERS [INCHES]

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
A	C10114517	2-21-13	Active	A

SCALE: 4:1	DR. BY: LSY	DATE: 2-21-13
DO NOT SCALE DRAWING	CK. BY: GJP	DATE: 3-4-13
TITLE: RECEIVER	APP. BY: GJP	DATE: 3-4-13
OUTLINE DRAWING	HODTEC-32024-000 SHT 1.1	

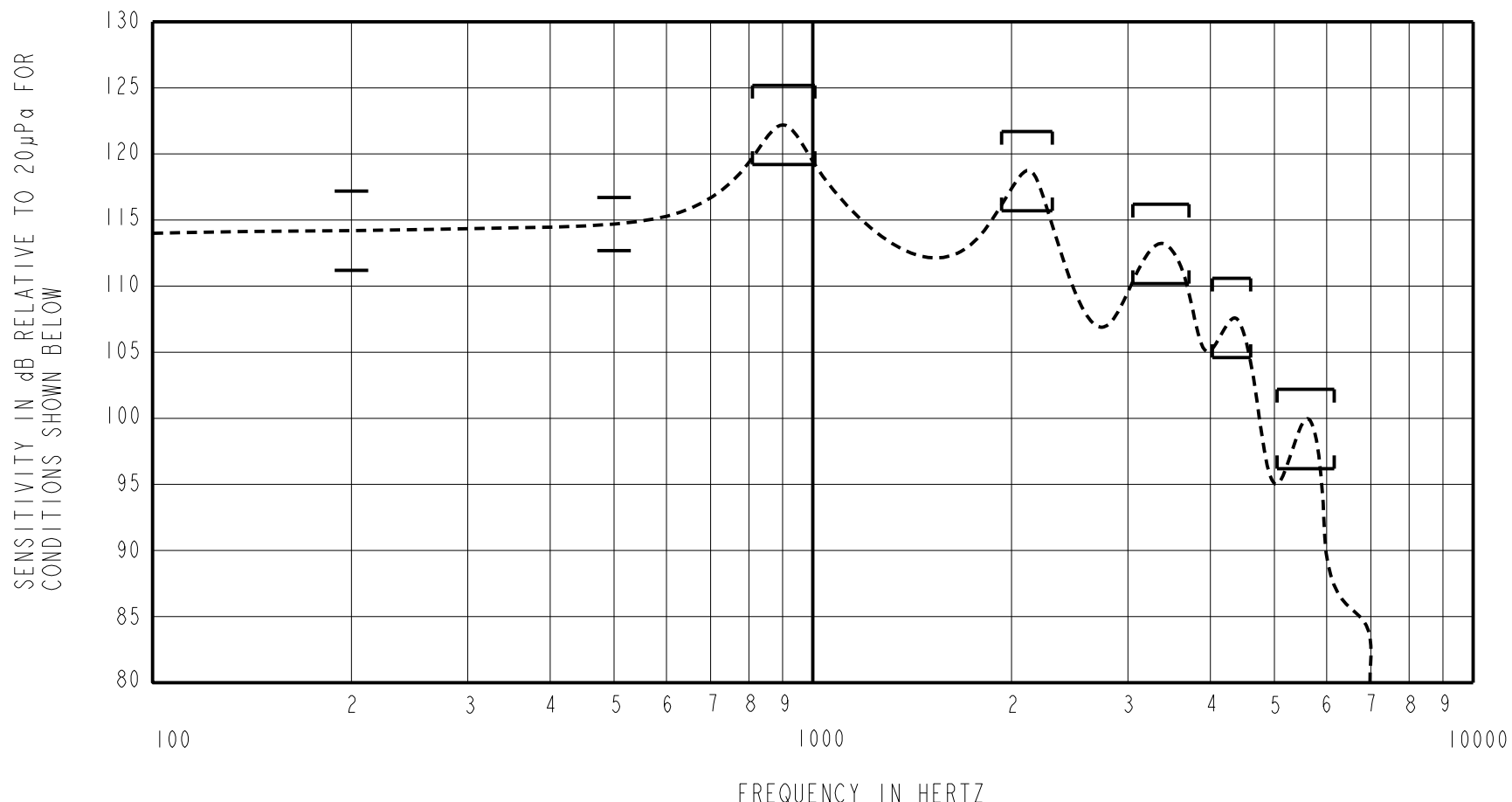
KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

THE HODTEC-32024-000 IS A PAIR OF BALANCED ARMATURE RECEIVERS INTENDED FOR USE IN HIGH POWER HEARING AIDS. IT HAS A MEDIUM DCR TO IMPEDANCE RATIO AND IS A SIMILAR SIZE TO AN EF RECEIVER.

NO DAMPING

HODTEC-32024-000
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 500 Hz IS dB RELATIVE TO 20µPa. ALL OTHER VALUES IN dB RELATIVE TO THE SENSITIVITY AT 500 Hz.

FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
200	-3.5	-0.5	+2.5
500	-2.0	114.7	+2.0
810-1010	+4.5	+7.5	+10.5
1950-2350	+1.0	+4.0	+7.0
3060-3740	-4.5	-1.5	+1.5
4030-4630	-10.1	-7.1	-4.1
5050-6170	-18.5	-15.5	-12.5

TABLE 1

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

FREQUENCY (Hz)	AC DRIVE (V rms)	DC BIAS (mA)	LIMIT (%)
1/3 PEAK	0.114	0	5
1/2 PEAK	0.114	0	5
1/3 PEAK	0.228	0	8
1/2 PEAK	0.228	0	8

TABLE 2

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.114 V rms, 0 mA DC BIAS
SOURCE IMPEDANCE	<1 Ohm
TUBING	8mm X 1mm ID + 28mm X 1.5mm ID EAR HOOK SIMULATOR + 25mm X 2mm ID TUBE + 18mm X 3mm ID TUBE
COUPLER CAVITY	2 cm ³ , SIMULATED ANSI S3.7 TYPE HA-3 (IEC 60318-5)

TABLE 3

ELECTRICAL

DC RESISTANCE	15.2 OHMS ± 10%
IMPEDANCE @ 500 Hz	26.2 OHMS ± 15%
IMPEDANCE @ 1kHz	29.3 OHMS ± 15%
INDUCTANCE @ 500 Hz	4.4 mH TYP
CAPACITANCE @ 10 MHz	5.2 pF TYP

TABLE 4

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

MECHANICAL

PORT LOCATION: 12S

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

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Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			Active	A
A	CI0114517	2-21-13		
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	DATE
TITLE: RECEIVER PERFORMANCE SPECIFICATION			LSY	2-21-13
			HODTEC-32024-000	
			GJP	3-4-13
			APP. BY	DATE
			GJP	3-4-13
			SHT 2.1	