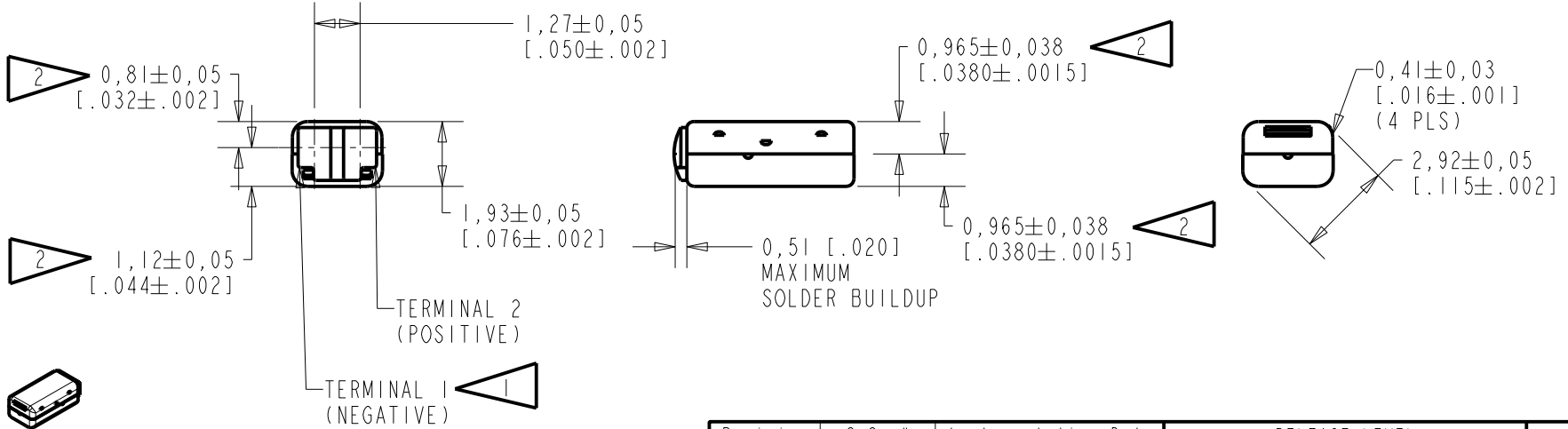


NOTES:

- 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

DIMENSIONS IN MILLIMETERS [INCHES]

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			Active	D
D	CI0116097	8-14-14		

SCALE: 5:1		DR. BY: SDZ	DATE: 7-27-06
TITLE: RECEIVER OUTLINE DRAWING		CK. BY: GJP	DATE: 7-27-06
		APP. BY: GJP	DATE: 7-27-06
WBFK-30042-000 SHT 1.1			

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

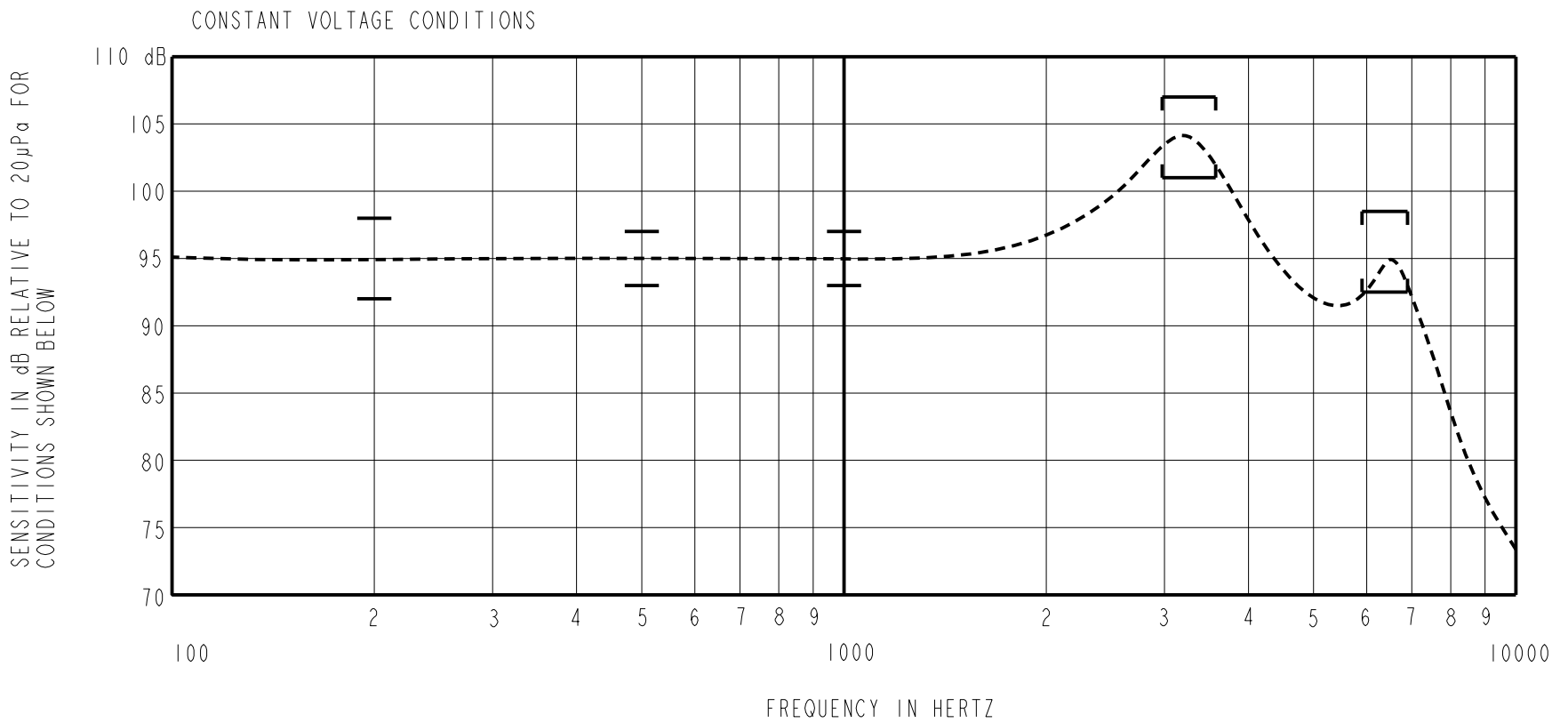
AN UNDAMPED MAGNETIC BALANCED ARMATURE RECEIVER
WITH AN EXTENDED HIGH FREQUENCY RESPONSE INTENDED FOR USE
IN CIC HEARING INSTRUMENTS.

NO DAMPING

WBFK-30042-000

SHEET 2.1

NOTE: SPECIFICATIONS FOLLOWED BY AN ASTERISK (*) ARE 100% TESTED.



ACOUSTICAL

SENSITIVITY*
DEVICE WILL PRODUCE THE SPL LISTED BELOW UNDER TEST CONDITION IN TABLE 3.
NOMINAL SENSITIVITY AT 1kHz IS dB RELATIVE TO 20 μ Pa. ALL OTHER VALUES
IN dB RELATIVE TO THE SENSITIVITY AT 1kHz.

FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
200	-3.0	0.0	+3.0
500	-2.0	0.0	+2.0
1000	-2.0	95.0	+2.0
2975-3575	+6.0	+9.0	+12.0
5900-6900	-2.5	+0.5	+3.5

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 (%)
1058	0.211	0	5
1588	0.211	0	5
1588	0.595	0	10

TABLE 2

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.211 V rms, 0 mA V 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	100 Ohms \pm 10%*
IMPEDANCE @ 500 Hz	111 Ohms \pm 15%*
IMPEDANCE @ 1kHz	124 Ohms \pm 15%*

TABLE 4

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

MECHANICAL

PORT LOCATION: 12N
SOLDER TYPE: SAC305

TEMPERATURE

OPERATING: SENSITIVITY AT 500 Hz WILL NOT
VARY MORE THAN +1 / -3 dB FROM
-17°C TO 63°C.
STORAGE: -40°C TO 63°C.

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			Active	D
D	C10116097	8-14-14		
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			SDZ	7-27-06
			WBFK-30042-000 SHT 2.1	
			CK. BY	DATE
			GJP	7-27-06
			APP. BY	DATE
			GJP	7-27-06

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