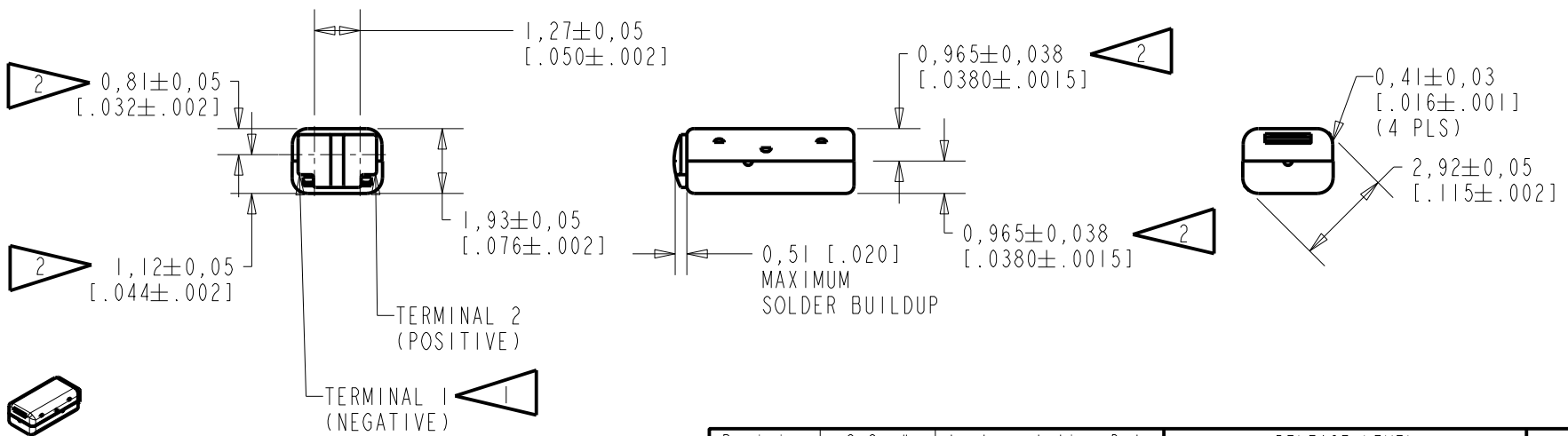


NOTES:

- 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
			<b>Active</b>	<b>D</b>
D	CI0116097	8-14-14		

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

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ITASCA, ILLINOIS U.S.A.

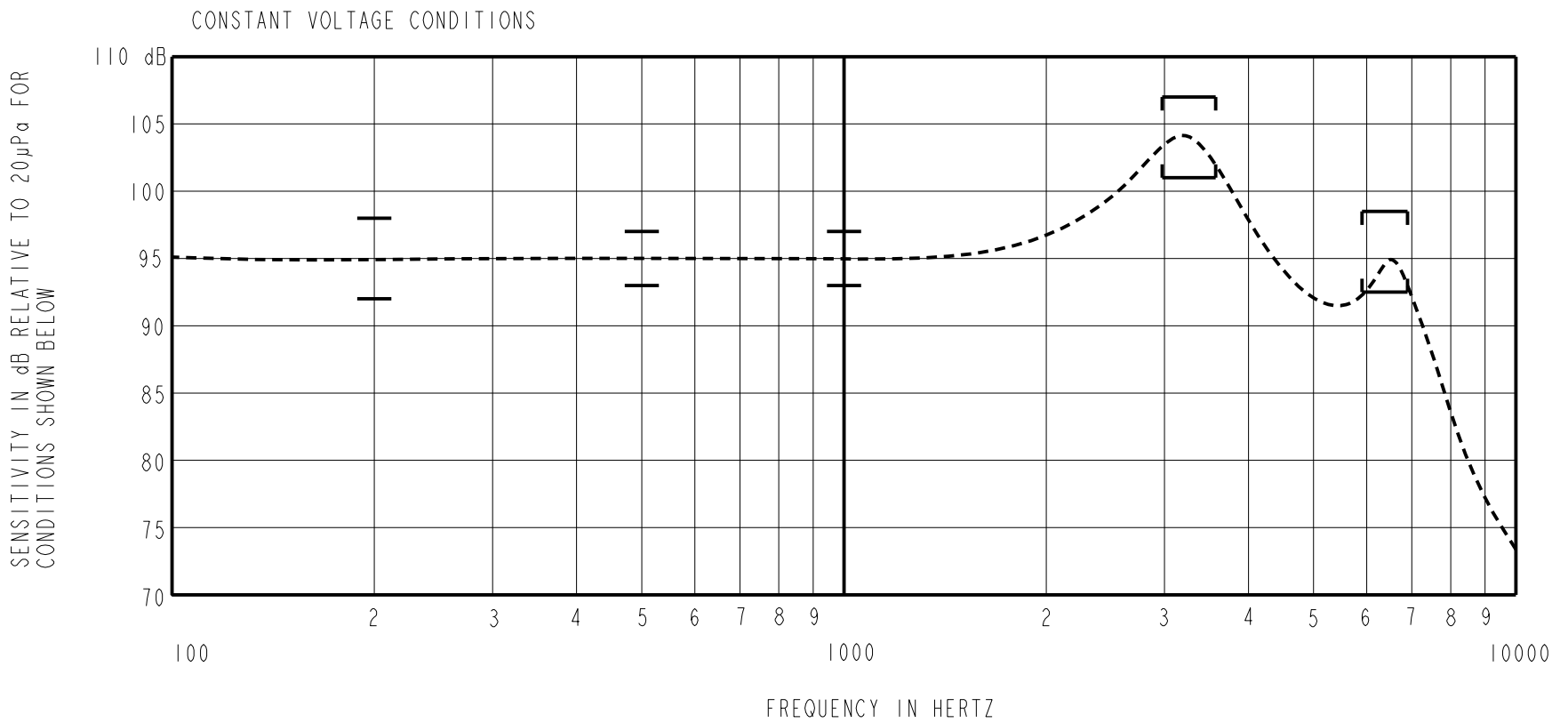
AN UNDAMPED MAGNETIC BALANCED ARMATURE RECEIVER WITH AN EXTENDED HIGH FREQUENCY RESPONSE INTENDED FOR USE IN CIC HEARING INSTRUMENTS.

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 μPa. 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 <sup>3</sup> , SIMULATED ANSI S3.7 TYPE HA-3 (IEC 60318-5)

TABLE 3

### ELECTRICAL

DC RESISTANCE	100 Ohms ± 10%*
IMPEDANCE @ 500 Hz	111 Ohms ± 15%*
IMPEDANCE @ 1kHz	124 Ohms ± 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	
			GJP	7-27-06
			APP. BY	DATE
			GJP	7-27-06

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