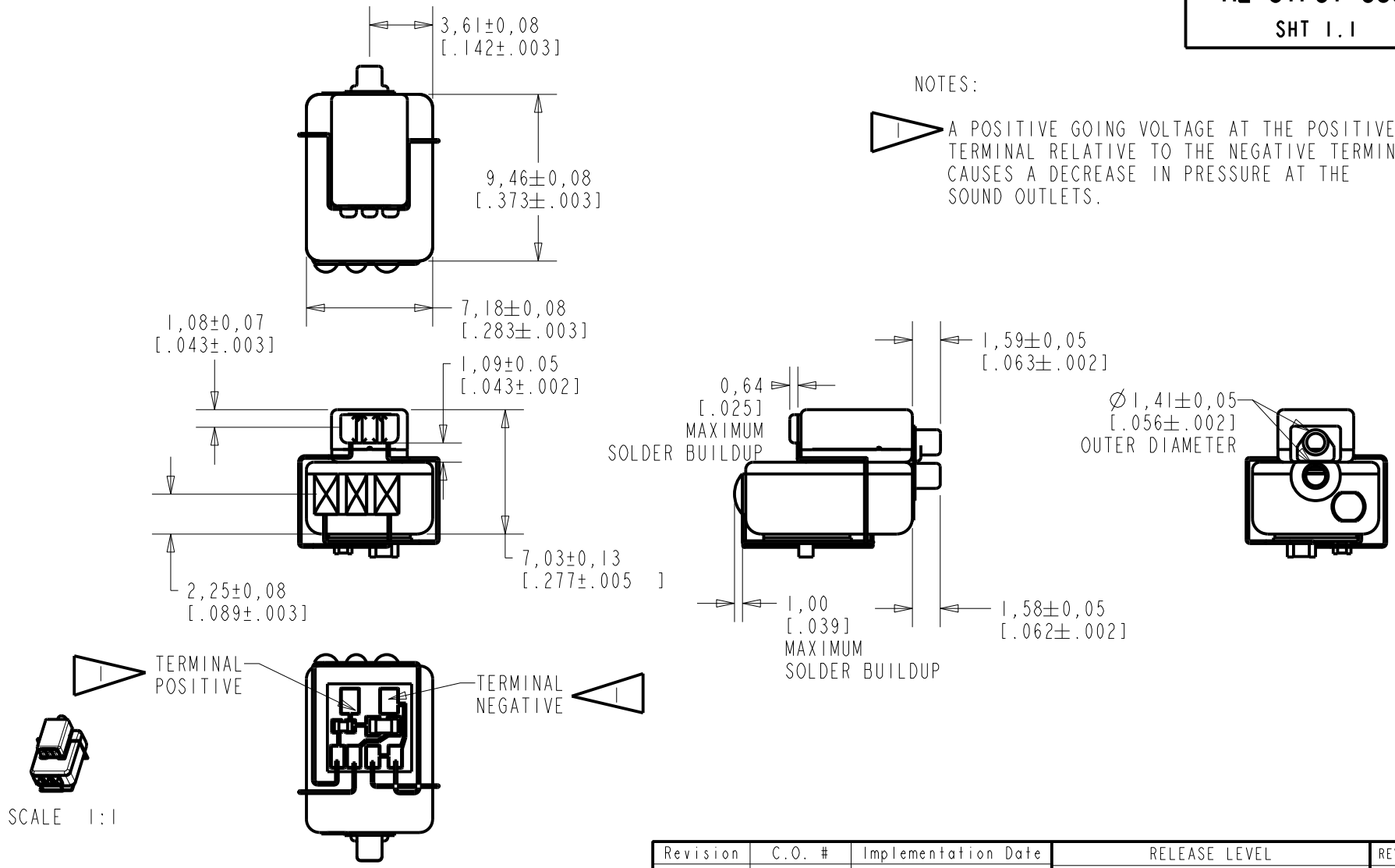
HE-31751-000
SHT 1.1



NOTES:

1. A POSITIVE GOING VOLTAGE AT THE POSITIVE TERMINAL RELATIVE TO THE NEGATIVE TERMINAL CAUSES A DECREASE IN PRESSURE AT THE SOUND OUTLETS.

NOMINAL WEIGHT
1.36 GRAM

DIMENSIONS IN MILLIMETERS [INCHES]

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			Active	A
A	C40101062	8-2-12		

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SCALE: 3:1

DO NOT SCALE DRAWING

TITLE: RECEIVER
OUTLINE DRAWING

HE-31751-000
SHT 1.1

DR. BY	DATE
LW	8-2-12
CK. BY	DATE
GJP	8-23-12
APP. BY	DATE
GJP	8-23-12

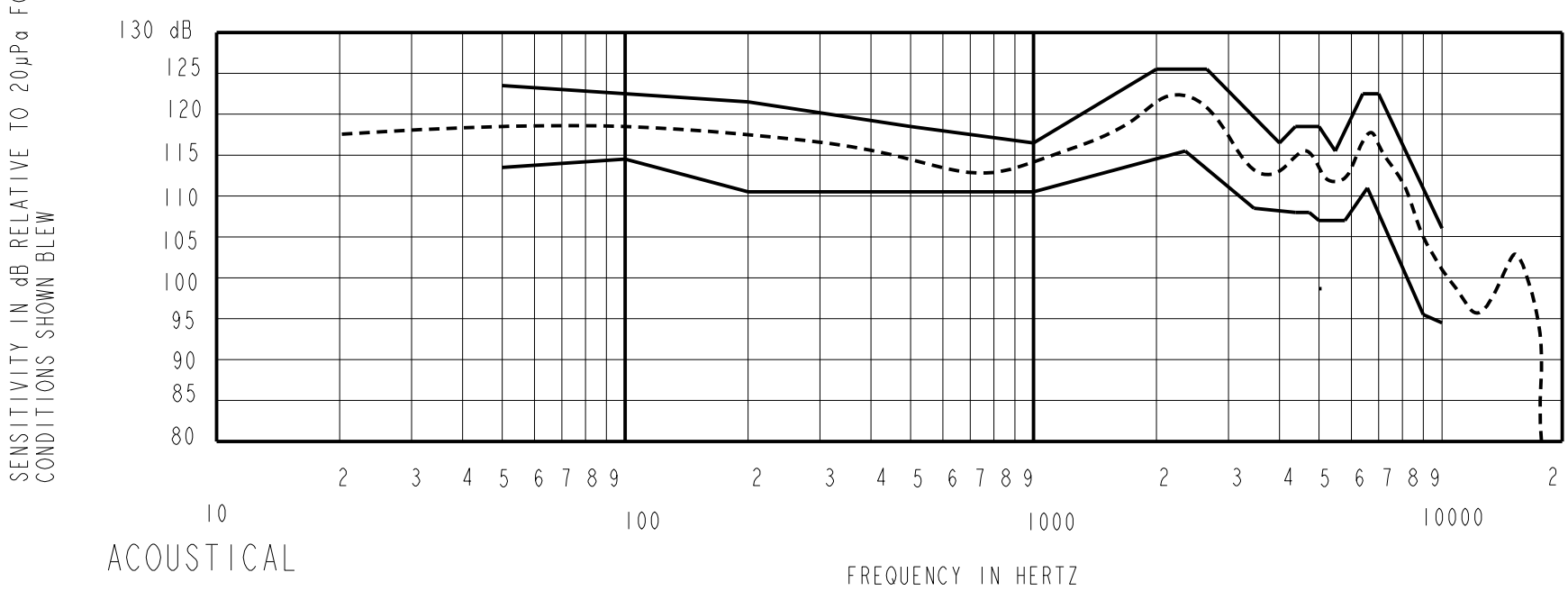
KEIIIASIZE.FRM Rev: B

UNDAMPED MAGNETIC BALANCED RECEIVERS INTENDED FOR USE AS THE HIGH AND LOW FREQUENCY DRIVERS IN A HI-FI SYSTEM. THE HE RECEIVER COMBINES A ED AND CI RECEIVERS, COUPLED THROUGH A CIRCUIT TO PROVIDE THE RESPONSE SHAPE.

NO DAMPING

HE-31751-000
SHEET 2.1

CONSTANT VOLTAGE DRIVE CONDITIONS (WITH VENT BLOCKED).



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
50	+0.0	+5.0	+10.0
100	+1.0	+5.0	+9.0
200	+0.0	+4.0	+8.0
500	-3.0	+1.0	+5.0
1000	-3.0	113.5	+3.0
2000	---	---	+12.0
2400	+2.0	---	---
2700	---	---	+12.0
3500	-5.0	---	---
4000	---	---	+3.5
4400	-5.5	---	+5.5
4750	-5.5	---	---
5000	-6.5	+0.0	+5.5
5500	---	---	+2.5
5800	-6.5	---	---
6300	---	---	+9.0
6700	-2.5	---	---
7000	---	---	+9.0
9000	-18.0	---	---
10000	-19.0	-12.5	-7.5

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 (%)
20-8000	0.13	0	4

TABLE 2

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.13 V rms, 0mA DC BIAS
SOURCE IMPEDANCE	<1 Ohm
TUBING	TUBELESS
COUPLER CAVITY	IEC 60318-4

TABLE 3

ELECTRICAL

DC RESISTANCE	23.9 Ohms ± 10%
IMPEDANCE @ 500 Hz	47.7 Ohms ± 20%
IMPEDANCE @ 1kHz	118.1 Ohms ± 20%

TABLE 4

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

MECHANICAL

PORT LOCATION: 12S
SOLDER TYPE: SAC305 (LEAD FREE)

TEMPERATURE:
OPERATING: SENSITIVITY AT 1kHz WILL NOT VARY BY MORE THAN +1/-3 dB FROM 0°C TO 63°C
STORAGE: -40°C TO 63°C

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			Active	A
A	C40101062	8-2-12		

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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

TITLE: RECEIVER
PERFORMANCE SPECIFICATION

HE-31751-000
SHT 2.1

DR. BY	DATE
LW	8-2-12
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GJP	8-23-12
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