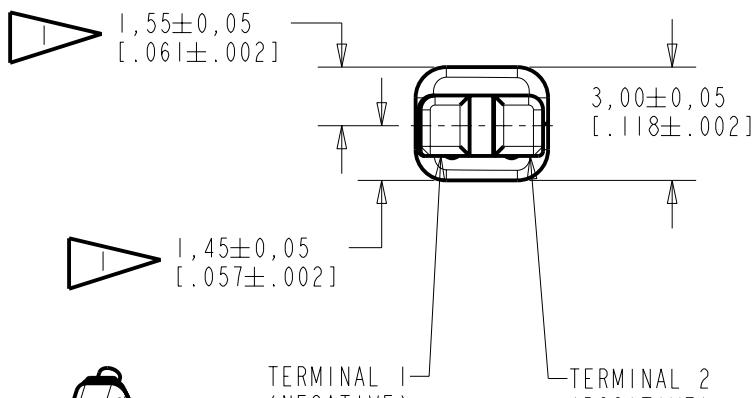
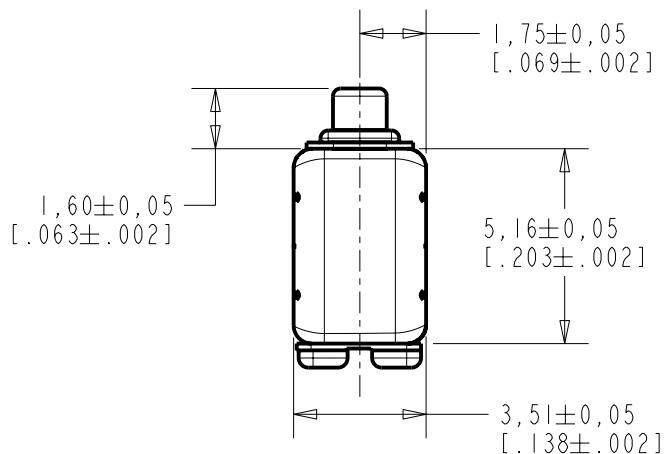


WBHC-23910-000

SHT 1.1

NOTES:

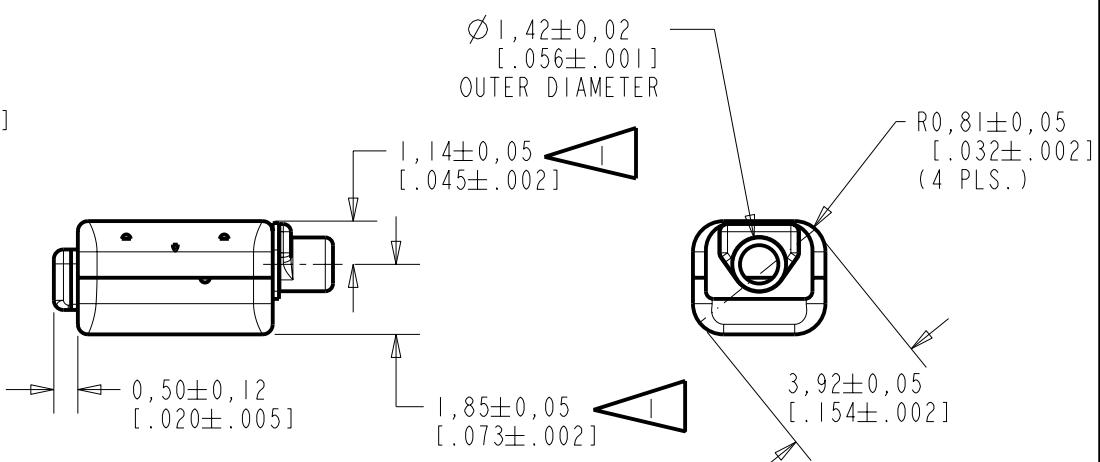
LOCATED FROM TWO SURFACES FOR CUSTOMER CONVENIENCE. ONLY APPLICABLE FROM ONE SURFACE, NOT TO BE USED TOGETHER.



SCALE 2:1

NOMINAL WEIGHT  
.21 GRAMS

DIMENSIONS IN MILLIMETERS [INCHES]



Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
C	C10104863	10-16-06	Released	C
B	C10103956	2-23-06		
A	C10102730	6-16-05		

SCALE:	5:1	DR. BY	DATE
	DO NOT SCALE DRAWING	MMM	6-16-05
TITLE:	RECEIVER	CK. BY	DATE
	WBHC-23910-000	GJP	6-17-05
	OUTLINE DRAWING	APP. BY	DATE
		GJP	6-17-05

KNOWLES ELECTRONICS  
ITASCA, ILLINOIS U.S.A.

**DESCRIPTION**

NO DAMPING

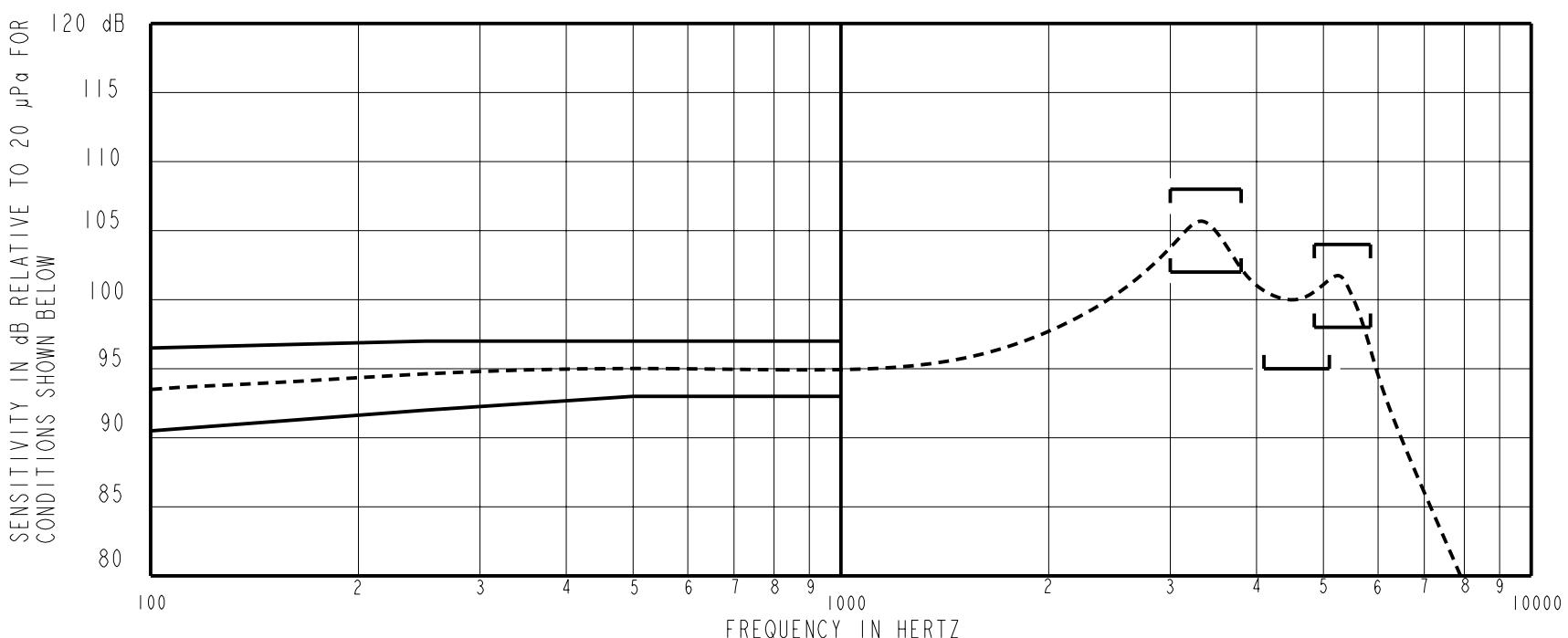
WBHC-23910-000

SHEET 2.1

A MAGNETIC BALANCED ARMATURE RECEIVER INTENDED FOR USE IN ITC AND CIC HEARING INSTRUMENTS. THE WBHC FAMILY OFFERS AN EXTENDED HIGH FREQUENCY RESPONSE IN THE SAME SIZE PACKAGE AS THE HC FAMILY. ALL WBHC UNITS HAVE SHOCK PROTECTION. THIS MODEL HAS MEDIUM IMPEDANCE AND IS UNDAMPED.

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

## CONSTANT VOLTAGE DRIVE RESPONSE

**ACOUSTICAL**

## SENSITIVITY\*

DEVICE WILL PRODUCE THE SPL LISTED BELOW WITH THE TEST CONDITIONS DESCRIBED IN TABLE 3. NOMINAL SENSITIVITY AT 1 kHz IS dB RELATIVE TO 20 $\mu$ Pa. ALL OTHER VALUES IN dB RELATIVE TO THE SENSITIVITY AT 1 kHz.

FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
100	-4.5	-1.5	+1.5
250	-3.0	-0.5	+2.0
500	-2.0	0.0	+2.0
1000	-2.0	95.0	+2.0
3000-3800 PEAK	+7.0	+10.0	+13.0
4100-5100 VALLEY	0.0	---	---
4850-5850 PEAK	+3.0	+6.0	+9.0

TABLE 1.

## TOTAL HARMONIC DISTORTION\*

DEVICE WILL NOT EXCEED TOTAL HARMONIC DISTORTION LEVELS LISTED BELOW.

FREQUENCY (Hz)	DRIVE (V RMS)	DC BIAS (mA)	LIMIT (%)
1130	0.283 V	0	5
1700	0.283 V	0	5
500	1.50 V	0	8

TABLE 2.

## TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.283 Vrms, 0 Vdc BIAS
SOURCE IMPEDANCE	< 1 $\Omega$
TUBING	10 mm (.394) LONG, 1 mm (.039) ID.
COUPLER CAVITY	2 CC SIMULATED ANSI S3.7 TYPE HA-3, (IEC 126)

TABLE 3.

## POLARITY\*

POSITIVE SIGNAL APPLIED TO TERMINAL 2 WILL PRODUCE A DECREASE IN SOUND PRESSURE AT THE SOUND OUTLET.

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
C	C10104863	10-16-06	Released	C
B	C10103956	2-23-06		
A	C10102730	6-16-05		

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

WBHC-23910-000

PERFORMANCE SPECIFICATION

SHT 2.1

DR. BY	DATE
MMM	6-16-05
CK. BY	DATE
GJP	6-17-05
APP. BY	DATE
GJP	6-17-05

**KNOWLES ELECTRONICS**  
ITASCA, ILLINOIS U.S.A.

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