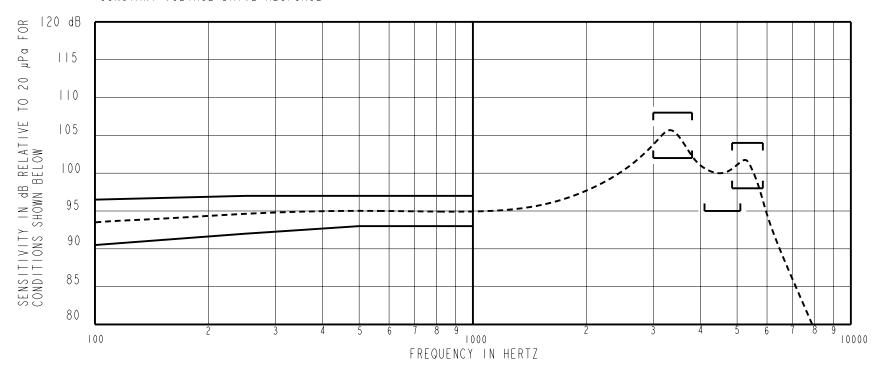


## DESCRIPTION

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 I kHz IS dB RELATIVE TO 20uPa. ALL OTHER VALUES IN dB RELATIVE TO THE SENSITIVITY AT I 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	+   0 . 0	+   3.0
4100-5100 VALLEY	0.0		
4850-5850 PEAK	+3.0	+6.0	+9.0

TABLE I.

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, O Vdc BIAS
SOURCE IMPEDANCE	<   Ω
TUBING	10 mm (.394) LONG,   mm (.039)   D.
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.

#### **ELECTRICAL**

DC RESISTANCE	120 Ω ±10%	*
IMPEDANCE @ 500 Hz	130 Ω ±15%	*
IMPEDANCE @   kHz	145 Ω ±20%	*
INDUCTANCE @ 500Hz	9 mH ±15%	
CAPACITANCE @ 10 MHz	4 pF ±20%	

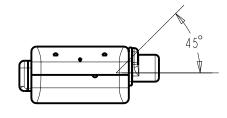
TABLE 4.

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

MAGNETIC RADIATION

WORST CASE: FIELD WILL BE LESS THAN LEVEL STATED BELOW AT AMPLIFIER CLIPPING (.920 V). 124 dB re lµA/m

DISTANCE OF 6.3 mm FROM CENTER OF RECEIVER ANGLE OF 45 DEGREES FROM TUBE



### MECHANICAL

PORT LOCATION: 12C 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

Rev	ision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
	С	C10104863	10-16-06		^
	В	C10103956	2 - 23 - 06	Released	(
	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

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.

RECEIVER WBHC-23910-000
PERFORMANCE SPECIFICATION SHT 2.1

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## Knowles:

WBHC-26825-000 WBHC-23910-000