

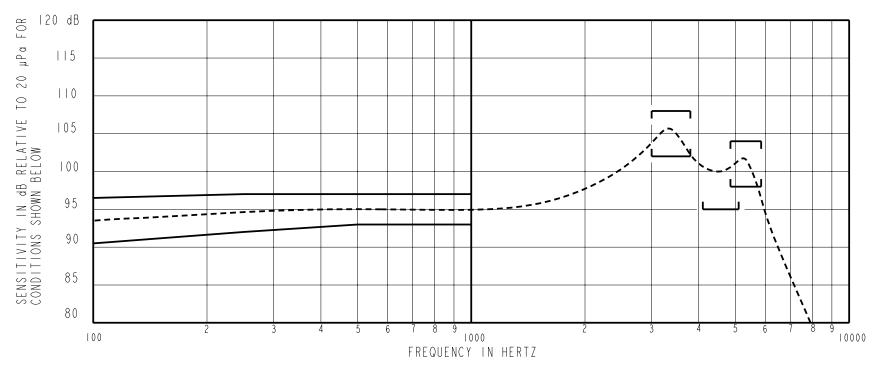
SHEET 2.1

DESCRIPTION

A MAGNETIC BALANCED ARMATURE RECEIVER WITH SHIELDING CUP INTENDED FOR USE IN ITC AND CIC HEARING INSTRUMENTS. THE WBHC FAMILY OFFERS AN EXTENDED HIGH FREQUENCY RESPONSE. ALL WBHC UNITS HAVE SHOCK PROTECTION. THIS MODEL HAS MEDIUM IMPEDANCE AND IS UNDAMPED AND HAS THE CENTER SOLDER TERMINAL CONNECTED TO THE CASE. OUTER CUP PROVIDES ADDITIONAL MAGNETIC RADIATION SHIELDIING.

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 TABLES 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, 1 mm (.039) ID.
COUPLER CAVITY	2 CC SIMULATED ANSI S3.7 TYPE HA-3, (IEC 126)

TABLE 3.

ELECTRICAL

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

TABLE 4.

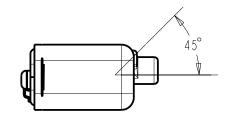
ISOLATION: THE CASE WILL BE ELECTRICALLY ISOLATED FROM THE COIL CIRCUIT*

MAGNETIC RADIATION

WORST CASE: FIELD WILL BE LESS THAN LEVEL STATED BELOW AT AMPLIFIER CLIPPING (.920 V).

104 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

SHT 2.1

GJP

6-15-05

+1/-3 dB FROM -17°C TO 63°C STORAGE: -40°C TO 63°C

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	
				Active		D	
	D	C10106952	3 - 25 - 08	,,,			
	WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION			DR. BY	DATE		
0017700	CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION			МММ	6-13-05		
RONICS				CK. BY	DATE		
J.S.A.	TITLE:	RF	CEIVER	WBHC-26836-000	GJP	6-15-05	
7.0.11.		1, [,	CLIVEN	" D110 20000 000	APP. BY	DATE	

PERFORMANCE SPECIFICATION

KNOWLES ELECTR ITASCA, ILLINOIS U