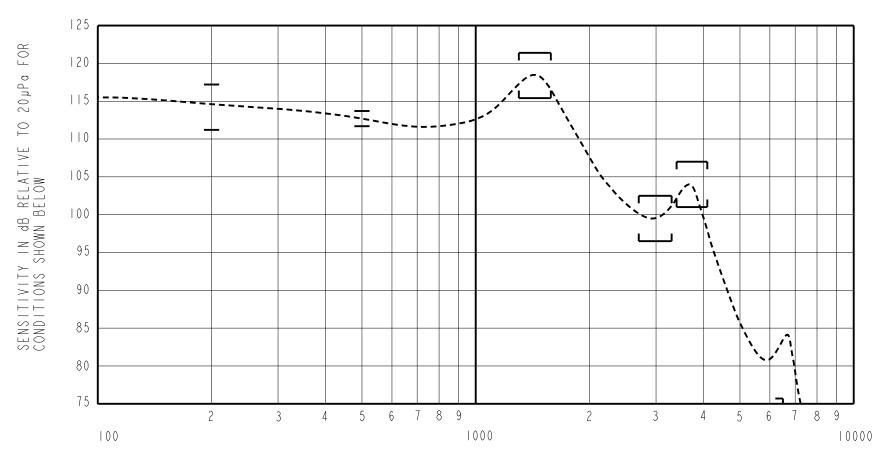


THE HODTEC-31515-000 IS A PAIR OF BALANCED ARMATURE RECEIVERS INTENDED FOR USE IN HIGH POWER HEARING AIDS. IT HAS A MEDIUM DCR TO IMPEDANCE RATIO AND IS A SIMILAR SIZE TO AN EF RECEIVER.

SHEET 2.1

CONSTANT VOLTAGE DRIVE CONDITIONS



FREQUENCY IN HERTZ

ACOUSTICAL

SENSITIVITY

DEVICE WILL PRODUCE THE SPL LISTED BELOW UNDER TEST CONDITIONS DESCRIBED IN TABLE 3. NOMINAL SENSITIVITY AT 500 Hz IS dB RELATIVE TO $20\mu P\alpha$. ALL OTHER VALUES IN dB RELATIVE TO THE SENSITIVITY AT 500 Hz.

FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
200	-1.5	+1.5	+4.5
500	-1.0	112.7	+ .0
1300-1580	+2.7	+5.7	+8.7
2700-3300	-16.2	-13.2	-10.2
3400-4100	-11.7	-8.7	-5.7
6500	-37.0		

TABLE I

TOTAL HARMONIC DISTORTION

DEVICE WILL NOT EXCEED TOTAL HARMONIC DISTORTION LEVELS LISTED BELOW.

FREQUENCY (Hz)	AC DRIVE (V rms)	DC BIAS (mA)	LIMIT (%)
I/3 PEAK	0.148	0	3
I/2 PEAK	0.148	0	3
I/3 PEAK	0.417	0	8
I/2 PEAK	0.417	0	8

TABLE 2

ELECTRICAL

DC RESISTANCE	27.2 OHMS ± 10%
IMPEDANCE @ 500 Hz	41.0 OHMS ± 15%
IMPEDANCE @ IkHz	81.3 OHMS ± 15%
INDUCTANCE @ 500 Hz	28 mH TYP
CAPACITANCE @ 10 MHz	5.2 pF TYP

TABLE 4

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

MECHANICAL

PORT LOCATION: 12S 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

TEST CONDITIONS

TEOT COMBITTORS	
NOMINAL SOURCE VOLTAGE	0.148 V rms, O mA DC BIAS
SOURCE IMPEDANCE	< I Ohm
TUBING	10mm [.394"] LONG X 1mm [.039"] 1D (" TE")
COUPLER CAVITY	2 cm ³ . SIMULATED ANSI S3.7 TYPE HA-3 (IEC 60318-5)

TABLE 3

Revision	C.O. #	Implementation Date	KELEASE LEVEL		REVISION.
A	C10115283P	7-29-11	Active		Α
CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION			DR. BY LSY CK. BY	DATE 7 - 29 - 11 DATE	
TITLE:	RE	CEIVER	HODTEC-31515-000	GJP APP. BY	8 - - DATE

SHT 2.1

PERFORMANCE SPECIFICATION

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.