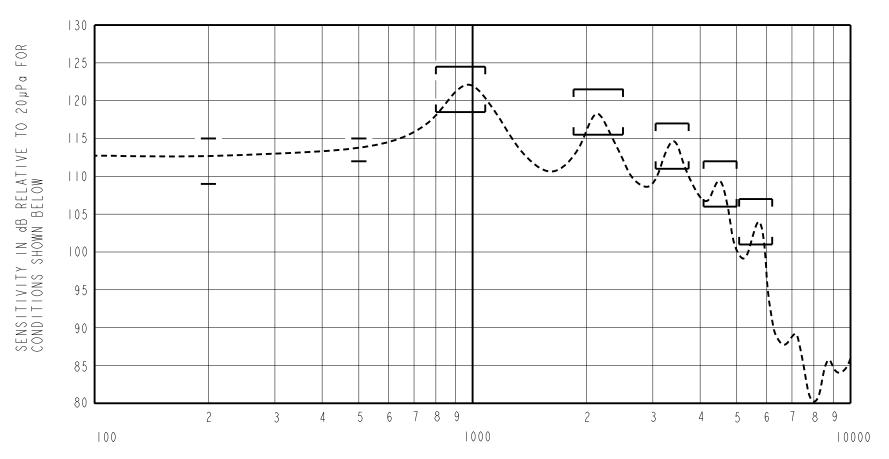


THE DTEC-31116-000 IS A PAIR OF BALANCED ARMATURE RECEIVERS INTENDED FOR USE IN BTE HEARING AIDS. IT HAS A LOW DCR TO IMPEDANCE RATIO, HAS THE CENTER TERMINAL CONNECTED TO CASE AND IS THE SAME SIZE AS AN EF RECEIVER

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

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 20μPα. ALL OTHER VALUES IN dB RELATIVE TO THE SENSITIVITY AT 500 Hz.

FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
200	-4.5	-1.5	+1.5
500	-1.5	113.5	+1.5
800-1080	+5.0	+8.0	+ .0
1850-2500	+2.0	+5.0	+8.0
3050-3730	-2.5	+0.5	+3.5
4085-4995	-7.5	-4.5	-1.5
5075-6205	- 4 0	- 0	-8 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 (%)
315	0.164	0	5
470	0.164	0	5
470	0.328	0	10

TABLE 2

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.164 V rms, TO DELIVER 0.70 mVA AT 500 Hz
SOURCE IMPEDANCE	< I Ohm
TUBING	8mm X Imm ID + 28mm X I.5mm ID EAR HOOK SIMULATOR + 25mm X 2mm ID TUBE + 18mm X 3mm ID TUBE
COUPLER CAVITY	2 cm ³ , SIMULATED ANSI S3.7 TYPE HA-3 (IEC 60318-5)

TABLE 3

ELECTRICAL

DC RESISTANCE	22 OHMS ± 10% *
IMPEDANCE @ 500 Hz	38 OHMS ± 15% ∗
INDUCTANCE @ 500 Hz	16 mH TYPICAL
CAPACITANCE @ 10 MHz	2 pF TYPICAL

TABLE 4

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

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

Revision	C.O. #	Implementation Date		RELEASE LEVEL		REVISION
						Α
				Active		I A
А	C10111188	4-6-10				/ \
WHEN TEST L	_IMITS ARE US	SED TO ESTABLISH INCOMI	NG INSPECTION	ACCEPTANCE/REJECTION	DR. BY	DATE

SDZ

4-6-10 DATE

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION

			CK. BY
TITLE:	RFCFIVFR	DTEC-31116-000	GJP
	MEGETVEN	D120 31110 000	APP. BY
	PERFORMANCE SPECIFICATION	SHT 2 I	GIP