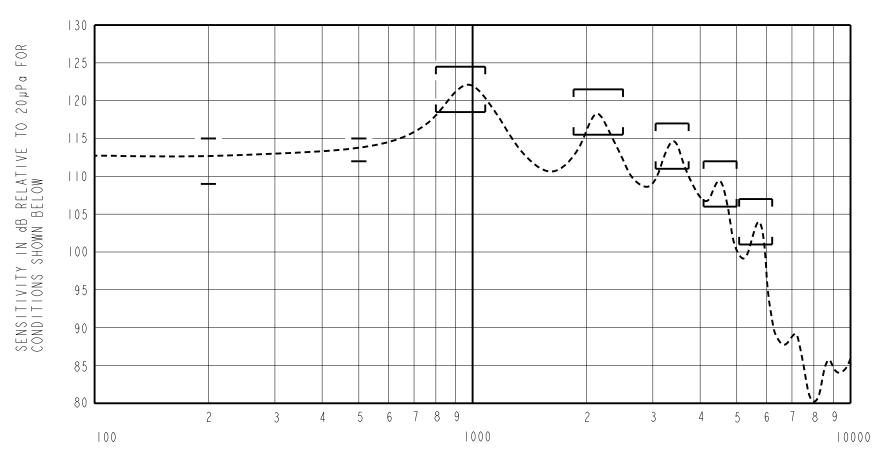


THE DTEC-31116-000 IS A PAIR OF BALANCED ARMATURE RECEIVERS INTENDED FOR USE IN BTE HEARING AIDS. IT HAS A LOW DCR TO IMPEDANCE RATIO, HAS THE CENTER TERMINAL CONNECTED TO CASE AND IS THE SAME SIZE AS AN EF RECEIVER

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

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

TEST CONDITIONS

1201 001101110110	
NOMINAL SOURCE VOLTAGE	0.164 V rms, TO DELIVER 0.70 mVA AT 500 Hz
SOURCE IMPEDANCE	< I Ohm
TUBING	8mm X 1mm 1D + 28mm X 1.5mm 1D EAR HOOK SIMULATOR + 25mm X 2mm 1D TUBE + 18mm X 3mm 1D TUBE
COUPLER CAVITY	2 cm ³ SIMULATED ANSI S3 7 TYPE HA-3 (IEC 60318-5)

TABLE 3

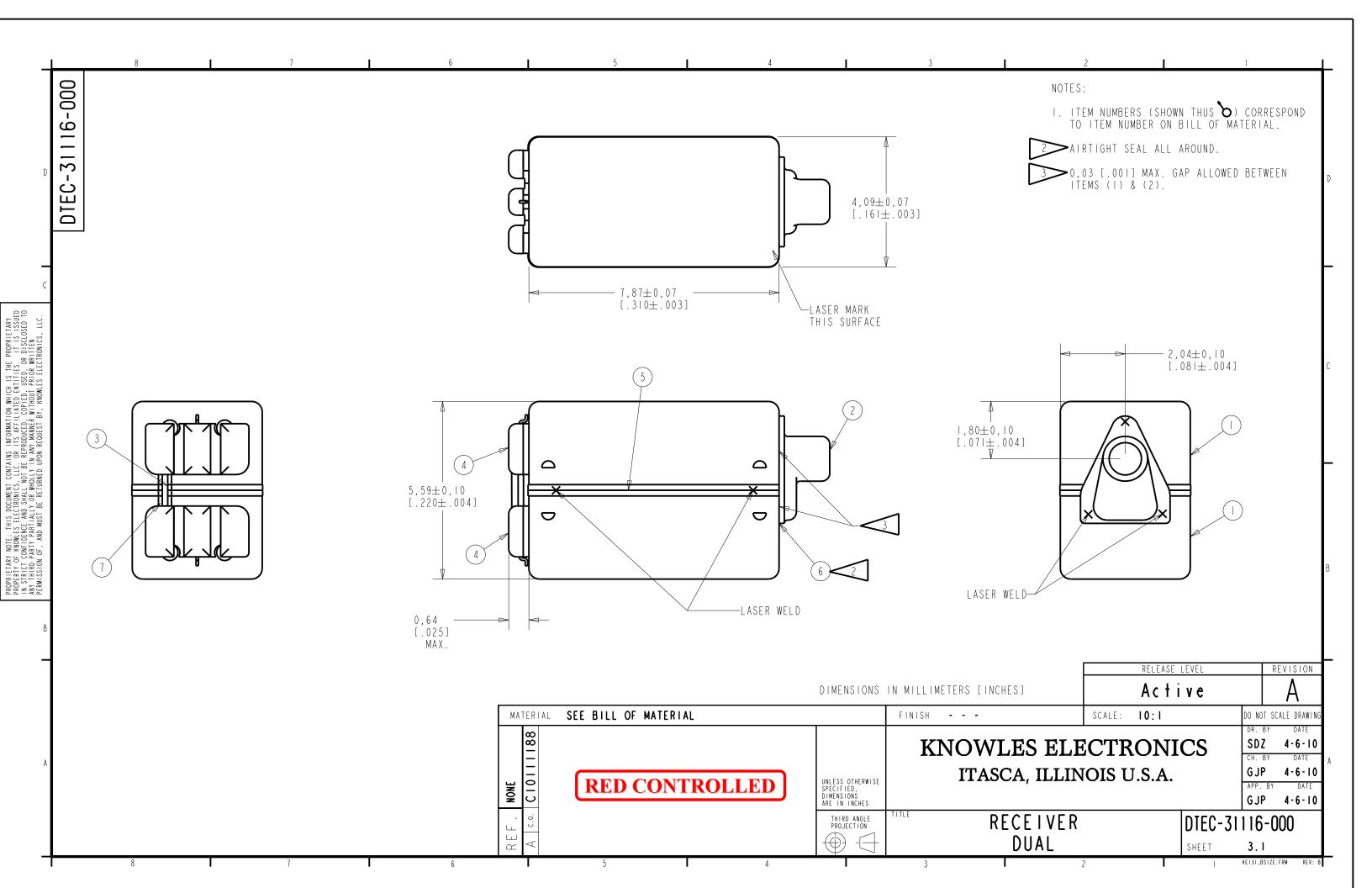
RED CONTROLLED

- 1	1101101011	0.0. "	p	THE CENTRE CENTRE		ILE TIOTOIL
	A	C10111188	4-6-10	Active		Α
	CRITERIA, (CORRELATION OF TEST FOULPMENT WITH KNOWLES IS ALSO REQUIRED FOR			DR. BY	DATE 4 - 6 - 10
					CK. BY	DATE
	TITLE:	RE	CEIVER	DTEC-31116-000	GJP APP BY	4-6-10

SHT 2.1

PERFORMANCE SPECIFICATION

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.



DTEC-31116-000		DTEC-31116-000	
Sheet 4.1	ITASCA, ILLINOIS U.S.A.	Sheet 4. I	
By Date Dr. SDZ 4-6-10 Ch. GJP 4-6-10 App. GJP 4-6-10	RECEIVER DUAL	Release Level Active	
COL. I	2 3	4 0 0 0	
Part or Dwg. no.	Tot. Req. Nomenclature:	Applicable Specs 😜 🚉 or Remarks ±	
TEC-31118-000	2 RECEIVER ASSEMBLY		
BI-013	I TUBE	2 2	
103-074	A/R WIRE	3 3	
285-007-001	A/R SOLDER LEAD FREE	4 4	
13-092-130101	A/R CEMENT	5 5	
13-092-130111E	A/R CEMENT	6 6	
13-092-130109	A/R CEMENT	7 7	

REVISION A c.o. C10111188

RED CONTROLLED

DTEC-31116-000 Sheet 4.1

DTEC-31116-000 SHEET 5.1

PRODUCTION TEST INFORMATION

SOFTWARE REVISION PXI FCART	SOFTWARE 1.73 MIN.
HARDWARE REVISION PXI FCART	KE 1065C.008G MIN.

RED CONTROLLED

Revision	C.O. #	Implementation Date	RELEASE LEVEL		REVISION
					A
			Active I	Д	
А	C10111188	4 - 6 - 10			/ \
WHEN TEST I	IMITS ARE IIS	SED TO ESTABLISH INCOMING	INSPECTION ACCEPTANCE/REJECTION	DR. BY	DATE

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

| WHEN IEST 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
 DTEC-31116-000
 GJP
 4-6-10

 PERFORMANCE SPECIFICATION
 SHT 5.1
 GJP
 4-6-10

SDZ

4-6-10