

SHT I.I

NOTES:

I. A POSITIVE GOING VOLTAGE AT TERMINAL 2, RELATIVE TO TERMINAL I, CAUSES A DECREASE IN PRESSURE AT THE SOUND OUTLET.

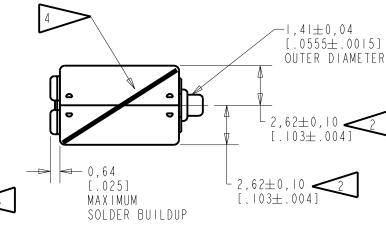
➤ LOCATED FROM TWO SURFACES FOR CUSTOMER CONVENIENCE. ONLY APPLICABLE FROM ONE SURFACE, NOT TO BE USED TOGETHER. HORIZONTAL LOCATION FOR TERMINAL CENTERED $TO \pm 0.17 [.007].$

➤RECEIVERS WIRED IN ELECTRICAL PARALLEL WHEN CONNECTED TO TERMINAL I AND TERMINAL 2.

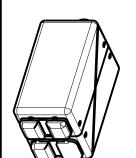
➤ RED STRIP FROM CORNER TO CORNER, EITHER SIDE.

 $.41\pm0.04$

 $[.0555 \pm .0015]$







NOMINAL WEIGHT .71 GRAMS

DIMENSIONS IN MILLIMETERS [INCHES]

 $2,04\pm0,10$

 $[.081\pm.004]$

 7.87 ± 0.07

 4.09 ± 0.07 $[.161\pm.003]$

 $5,23\pm0,10$

-TERMINAL 2

(POSITIVE)

 $[.206\pm.004]$

TITLE:

 $[.310 \pm .003]$

A SCALE:	C10112225	4- 3-	7(01110	DR. BY	DATE
В	C10112707	8-26-11	l Active		(,
С	C10114023	8 - 30 - 12	A 1 .		^
Revision	C.O. #	Implementation Date	RELEASE LEVEL		REVISION

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TERMINAL I-

(NEGATIVE)

 $1,58\pm0,05$

LASER MARK-

THIS SURFACE

 $[.062\pm .002]$

 $1,94 \pm 0,10$

 $1,50\pm0,05$

 $[.059\pm.002]$

 $[.077\pm.004]$

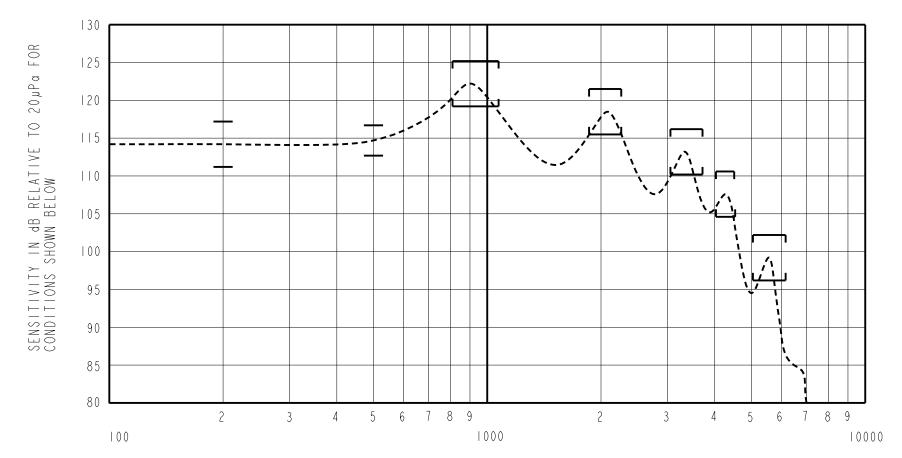
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20 1107 2011 5 2011		KL	4 - 3 -
DO NOT SCALE DRAW	IING	CK. BY	DATE
RECEIVER	HODTEC-31230-000	GJP	4 - 3 -
NECETALIN	1100120 31230 000	APP. BY	DATE
OUTLINE DRAWING	SHT I.I	G IP	4-13-11

SHEET 2.1

THE HODTEC-31230-000 IS A PAIR OF BALANCED ARMATURE RECEIVERS INTENDED FOR USE IN HIGH POWER HEARING AIDS. IT HAS A MEDIUM DCR TO IMPENDANCE RATIO AND IS A SIMILAR SIZE TO AN EF RECEIVER. A RED STRIPE DIFFERENTIATES THIS MODEL FROM OTHER HODTEC'S.

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	-3.5	-0.5	+2.5
500	-2.0	114.7	+2.0
8 0 - 0 0	+4.5	+7.5	+ 0.5
1895-2305	+0.8	+3.8	+6.8
3060-3740	-4.5	-1.5	+1.5
4030-4530	- 0 .	-7.1	-4.1
5050-6170	-18.5	-15.5	-12.5

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	5
I/2 PEAK	0.148	0	5
I/3 PEAK	0.295	0	8
I/2 PEAK	0.295	0	8

TABLE 2

ELECTRICAL

DC RESISTANCE	26.5 OHMS ± 10% *
IMPEDANCE @ 500 Hz	40.7 OHMS ± 15% *
IMPEDANCE @ IK Hz	45.6 OHMS ± 15% *
INDUCTANCE @ 500 Hz	IO.4 mH TYP.
CAPACITANCE @ 10 MHz	I3.8 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

+J/-3 dB FROM -I7°C TO 63°C

STORAGE: -40°C TO 63°C

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.148 V rms, O mA DC BIAS
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

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
С	C10114023	8 - 30 - 12		\sim
В	C10112707	8 - 26 - 11	l Active	(
Δ	C10112225	4-13-11		

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WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION OR CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION

V	DIV. DI	DATE
	KL	4- 3-
	CK. BY	DATE
	GJP	4 - 3 -
	APP. BY	DATE

4-13-11

GJP

TITLE:	RECEIVER	HODTEC-31230-000
	PERFORMANCE SPECIFICATION	SHT 2.1