

TEC-30006-000

SHT 1.1

NOTES:

- 1 A POSITIVE GOING VOLTAGE AT TERMINAL 2, RELATIVE TO TERMINAL 1, CAUSES A DECREASE IN PRESSURE AT THE SOUND OUTLET.
- 2 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].



NOMINAL WEIGHT  
.35 GRAM

DIMENSIONS IN MILLIMETERS [INCHES]

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
E	CI0116424	11-28-14	Active	E
D	CI0107030	1-30-08		

SCALE: 4:1		DR. BY: SDZ	DATE: 7-05-06
DO NOT SCALE DRAWING			
TITLE: RECEIVER		TEC-30006-000	
OUTLINE DRAWING		SHT 1.1	
		APP. BY: GJP	DATE: 7-20-06
		APP. BY: GJP	DATE: 7-20-06

**KNOWLES ELECTRONICS**  
ITASCA, ILLINOIS U.S.A.

THIS UNIT IS A BALANCED ARMATURE RECEIVER INTENDED FOR USE IN BTE HEARING AIDS, AND IS 1/2 THE SIZE OF AN EF RECEIVER.

NO DAMPING

TEC-30006-000

SHEET 2.1

CONSTANT VOLTAGE DRIVE CONDITIONS



ACOUSTICAL

SENSITIVITY  
DEVICE WILL PRODUCE THE SPL LISTED BELOW UNDER TEST CONDITIONS DESCRIBED IN TABLE 3. NOMINAL SENSITIVITY AT 1000 Hz IS dB RELATIVE TO 20µPa. ALL OTHER VALUES IN dB RELATIVE TO THE SENSITIVITY AT 500 Hz.

FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
200	-3.0	0.0	+3.0
500	-1.0	107.0	+1.0
975-1315	+9.0	+12.0	+15.0
1465-1980	+0.5	+3.5	+6.5
1815-2455	+4.5	+7.5	+10.5
2575-3145	-4.5	-1.5	+1.5
3035-3710	+1.5	+4.5	+7.5
3745-4575	-10.0	-7.0	-4.0
4250-5190	-5.0	-2.0	+1.0
5412	-10.5	---	---
5310-6490	-8.0	-5.0	-2.0

TABLE 1

TOTAL HARMONIC DISTORTION  
DEVICE WILL NOT EXCEED TOTAL HARMONIC DISTORTION LEVELS LISTED BELOW.

FREQUENCY (Hz)	AC DRIVE (V rms)	DC BIAS (mA)	LIMIT (%)
382	0.154	0	5
573	0.154	0	5
573	0.308	0	10

TABLE 2

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.154 V rms, TO DELIVER 0.35 mVA AT 500 Hz
SOURCE IMPEDANCE	<1 Ohm
TUBING	8mm X 1mm ID + 28mm X 1.5mm ID EAR HOOK SIMULATOR + 25mm X 2mm ID TUBE + 18mm X 3mm ID TUBE
COUPLER CAVITY	2 cm <sup>3</sup> , SIMULATED ANSI S3.7 TYPE HA-3 (IEC 60318-5)

TABLE 3

ELECTRICAL

DC RESISTANCE	46 OHMS ± 10%
IMPEDANCE @ 500 Hz	62 OHMS ± 15%
INDUCTANCE @ 500 Hz	10.2 mH ± 15%
CAPACITANCE @ 10 MHz	9.0 pF ± 20%

TABLE 4

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

MECHANICAL

PORT LOCATION: 12N

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

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Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
E	C10116424	11-28-14	Active	E
D	C10107030	1-30-08		
WHEN TEST 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			TEC-30006-000	DR. BY DATE
PERFORMANCE SPECIFICATION			SHT 2.1	SDZ 7-05-06
				CK. BY DATE
				GJP 7-20-06
				APP. BY DATE
				GJP 7-20-06