

## Excellent Integrated System Limited

Stocking Distributor

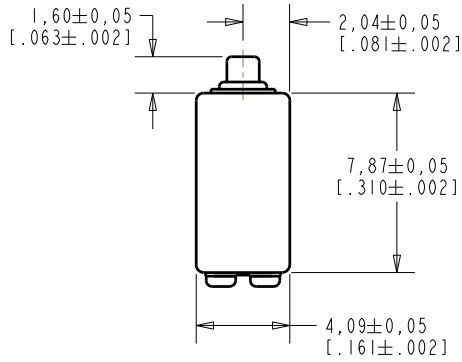
Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Knowles](#)  
[TEC-30033-000](#)

For any questions, you can email us directly:  
[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

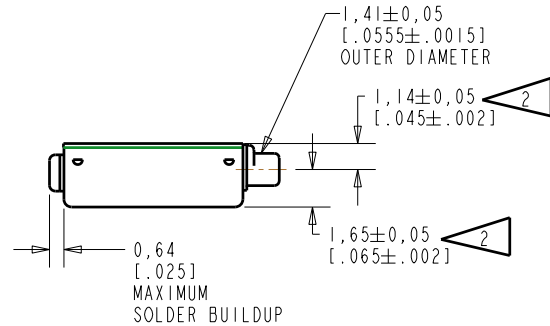
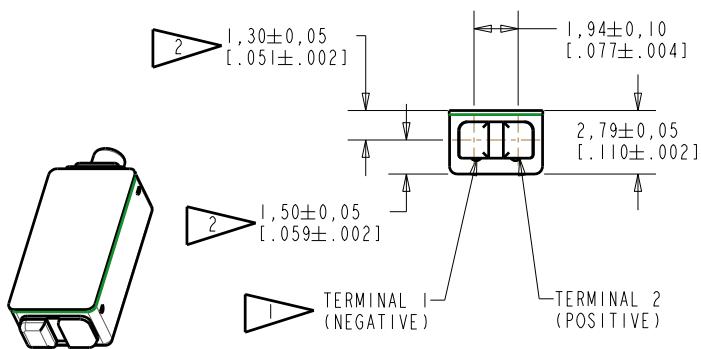
**TEC-30033-000**

**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
			<b>Active</b>	<b>D</b>
D	CI0107030	1-30-08		

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

SCALE:	<b>4:1</b>	DR. BY	DATE
DO NOT SCALE DRAWING		CRG	8-21-06
TITLE:		CK. BY	DATE
<b>RECEIVER</b>		GJP	8-28-06
OUTLINE DRAWING		APP. BY	DATE
<b>TEC-30033-000</b>		GJP	8-28-06
<b>SHT 1.1</b>			

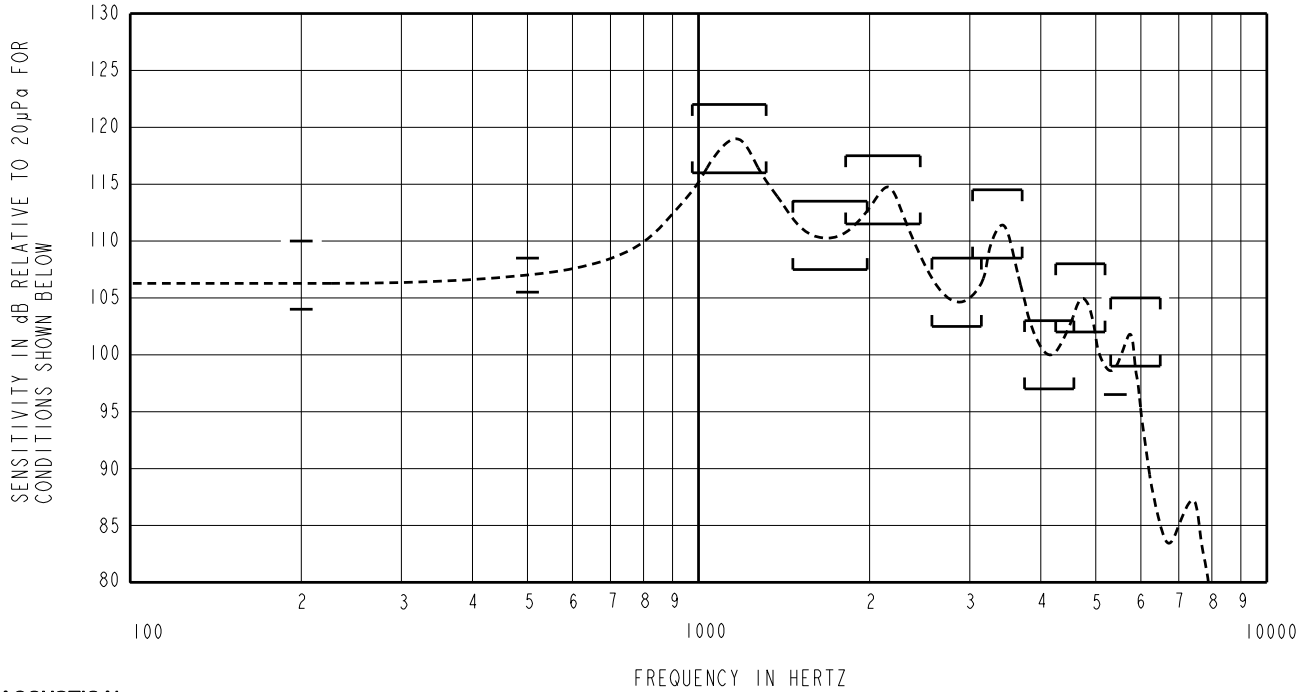
NO DAMPING

TEC-30033-000

SHEET 2.1

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

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	-1.5	107.0	+1.5
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	0.109	0	5
573	0.109	0	5
573	0.218	0	10

TABLE 2

**ELECTRICAL**

DC RESISTANCE	22 OHMS ± 10%
IMPEDANCE @ 500 Hz	31 OHMS ± 15%
INDUCTANCE @ 500 Hz	7.2 mH ± 15%
CAPACITANCE @ 10 MHz	9.0 pF ± 20%

TABLE 4

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

**MECHANICAL**

PORT LOCATION: 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**

NOMINAL SOURCE VOLTAGE	0.109 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 126)

TABLE 3