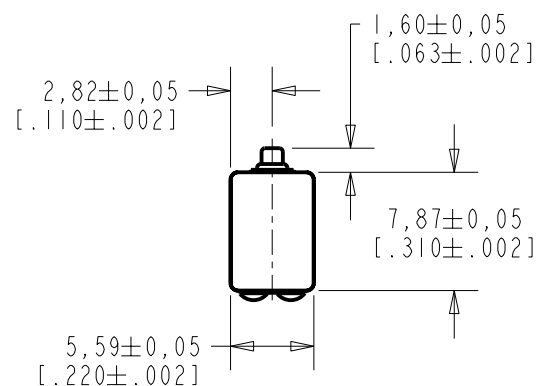


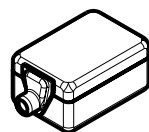
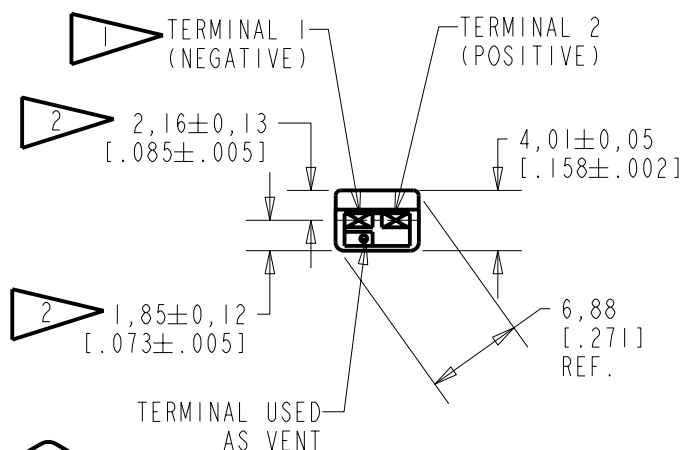
BK-26877-000

SHT 1.1



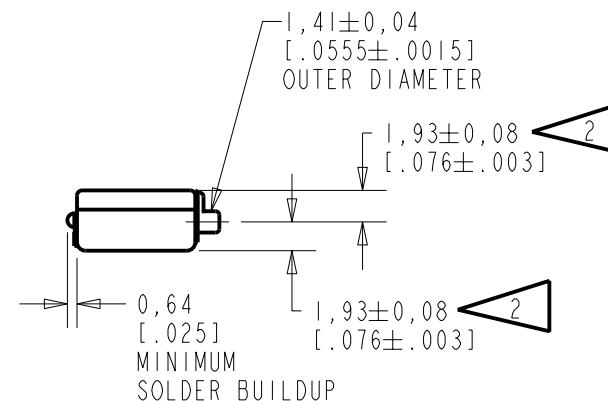
NOTES:

- 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.



NOMINAL WEIGHT
.66 GRAM

DIMENSIONS IN MILLIMETERS [INCHES]



Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
B	CI0105283	1-18-07	Released	B
A	CI0103691	12-21-05		
SCALE: 2:1			DR. BY	DATE
DO NOT SCALE DRAWING			CRG	12-21-05
TITLE: RECEIVER			CK. BY	DATE
OUTLINE DRAWING			GJP	1-2-06
BK-26877-000			APP. BY	DATE
SHT 1.1			GJP	1-2-06

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

DESCRIPTION

THE BK-26877-000 IS A MAGNETIC BALANCED ARMATURE RECEIVER WITH A HIGH DCR/IMPEDANCE RATIO USED IN KNOWLES ACOUSTICS APPLICATIONS. AN EXTERNAL BACK VENT IS PROVIDED ON THE LOWER TERMINAL PAD.

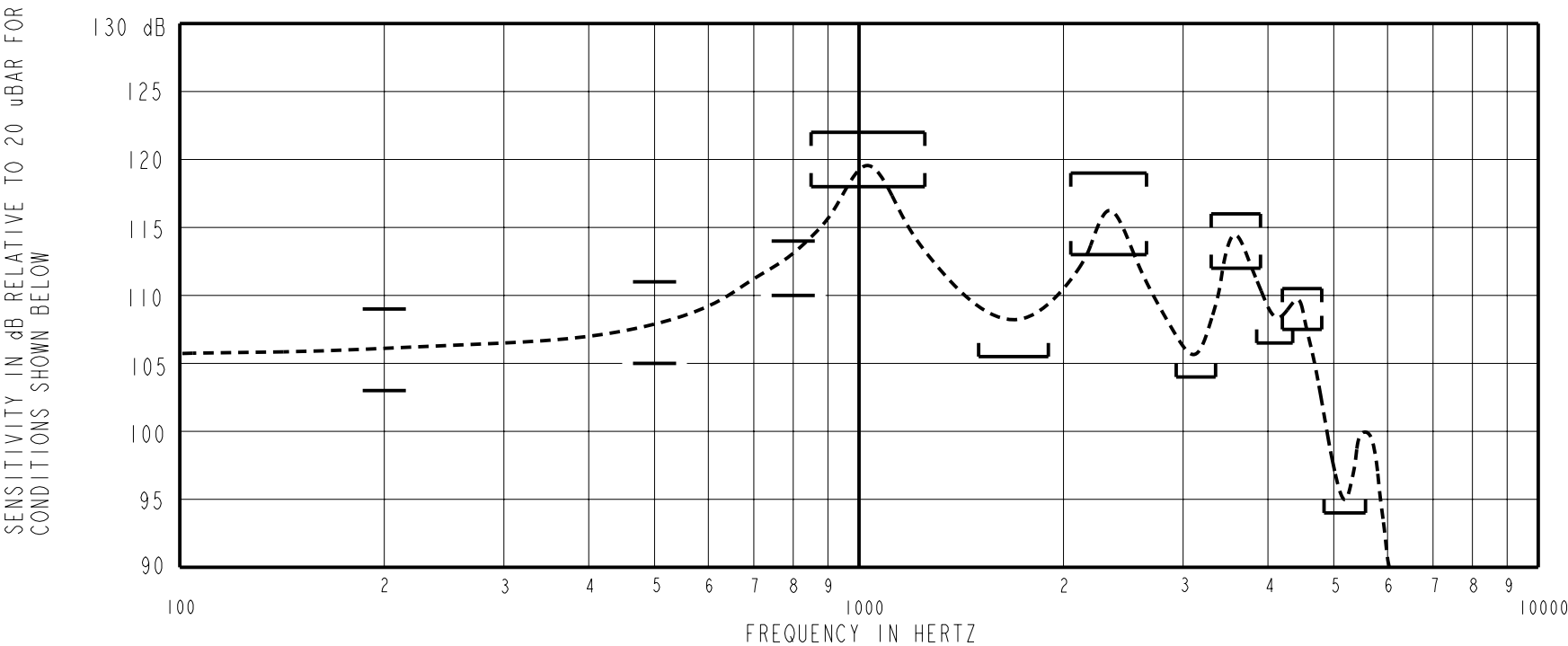
NOTE: SPECIFICATIONS FOLLOWED BY AN ASTERISK (*) ARE 100% TESTED.

NO DAMPING

BK-26877-000

SHEET 2.1

CONSTANT VOLTAGE DRIVE RESPONSE (DATA MEASURED WITH BACK VENT SEALED)



ACOUSTICAL

SENSITIVITY*
DEVICE WILL PRODUCE THE SPL LISTED BELOW WITH THE TEST CONDITIONS DESCRIBED IN TABLE 3. NOMINAL SENSITIVITY AT 500 Hz IS dB RELATIVE TO 20 μ Pa. ALL OTHER VALUES IN dB RELATIVE TO THE SENSITIVITY AT 500 Hz.

FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
200	-5.0	-2.0	+1.0
500	-3.0	108.0	+3.0
800	+2.0	+4.0	+6.0
900-1300 PEAK	+10.0	+12.0	+14.0
1550-1950 VALLEY	-2.5	---	---
2050-2650 PEAK	+5.0	+8.0	+11.0
2900-3300 VALLEY	-4.0	---	---
3400-4000 PEAK	+4.0	+6.0	+8.0
3950-4450 VALLEY	-1.5	---	---
4200-4800 PEAK	-0.5	+1.0	+2.5
5000-5600 VALLEY	-14.0	---	---

TABLE 1.

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

FREQUENCY (Hz)	DRIVE (V RMS)	DC BIAS (mA)	LIMIT (%)
350	.106 V	0	5
500	.106 V	0	5
500	.106 V	0	10

TABLE 2.

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	.106 Vrms, 0 Vdc BIAS
SOURCE IMPEDANCE	< 1 Ω
TUBING	8 mm (.315) LONG X 1 mm (.039) ID 28 mm (1.10) LONG X 1.5 mm (.059) ID 25 mm (.984) LONG X 2 mm (.079) ID 18 mm (.710) LONG X 3 mm (.118) ID
COUPLER CAVITY	2 CC SIMULATED ANSI S3.7 TYPE HA-3, (IEC 126)

TABLE 3.

POLARITY
POSITIVE SIGNAL APPLIED TO TERMINAL 2 WILL PRODUCE A DECREASE IN SOUND PRESSURE AT THE SOUND OUTLET.
REF. SHEET 1.1.

ELECTRICAL

DC RESISTANCE	20 Ω \pm 10%
IMPEDANCE @ 500 Hz	28 Ω \pm 15% *
IMPEDANCE @ 1 kHz	52 Ω \pm 20% *

TABLE 4.

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

MECHANICAL

PORT LOCATION: 12S

SOLDER TYPE: 96.5% Sn / 3.0% Ag / 0.5% Cu

TEMPERATURE
OPERATING: SENSITIVITY WILL NOT VARY MORE THAN
+1/-3 dB FROM -17°C TO 63°C
STORAGE: -40°C TO 63°C

MECHANICAL SHOCK
LEAK TEST AFTER AGING (NO LEAK AFTER ANY OF THE ABOVE TESTS)

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
B	C10105283	1-18-07	Released	B
A	C10103691	12-21-05		
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			DR. BY CRG	DATE 12-21-05
TITLE: RECEIVER PERFORMANCE SPECIFICATION			CK. BY GJP	DATE 1-2-06
			APP. BY	DATE
			GJP	1-2-06

BK-26877-000
SHT 2.1