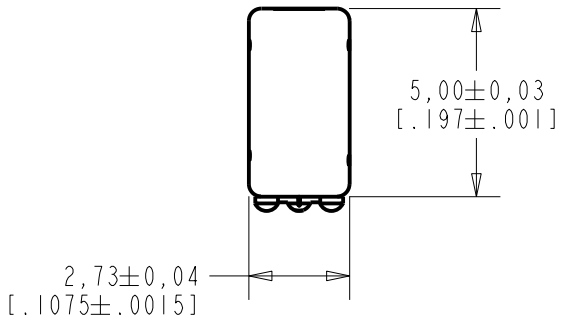
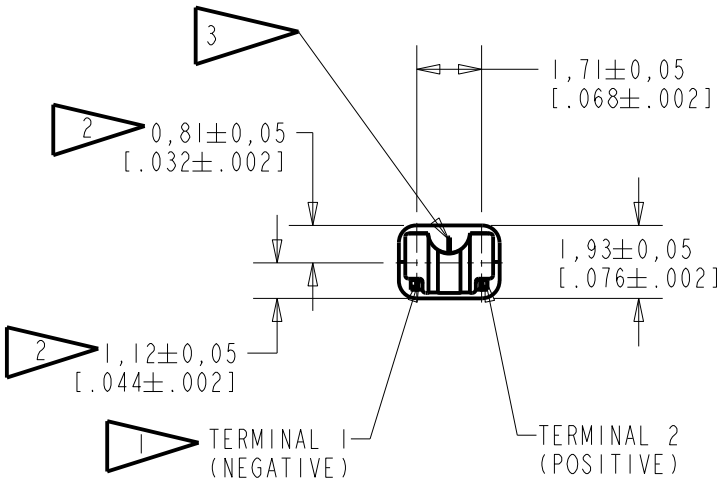
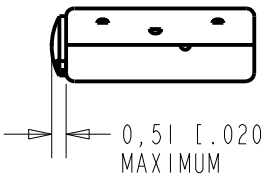
FK-30020-000
SHT 1.1

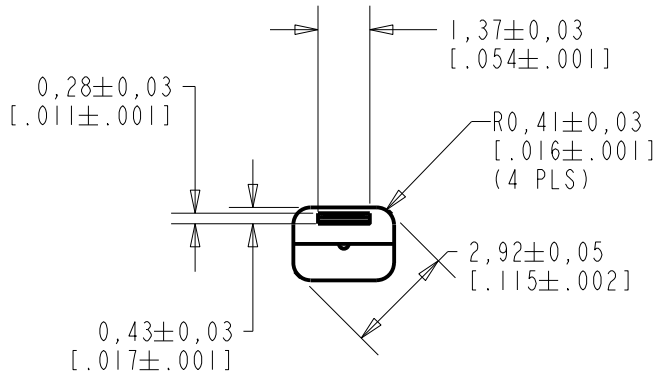
NOTES:

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.
3. TERMINAL ELECTRICALLY CONNECTED TO CASE.









SCALE 2:1

NOMINAL WEIGHT
.11 GRAMS

DIMENSIONS IN MILLIMETERS [INCHES]

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
F	C10111937	1-7-11	Active	F
E	C10108259P	12-29-08		
D	C10105742	4-25-07		

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

SCALE: 5:1

DO NOT SCALE DRAWING

TITLE: RECEIVER
OUTLINE DRAWING

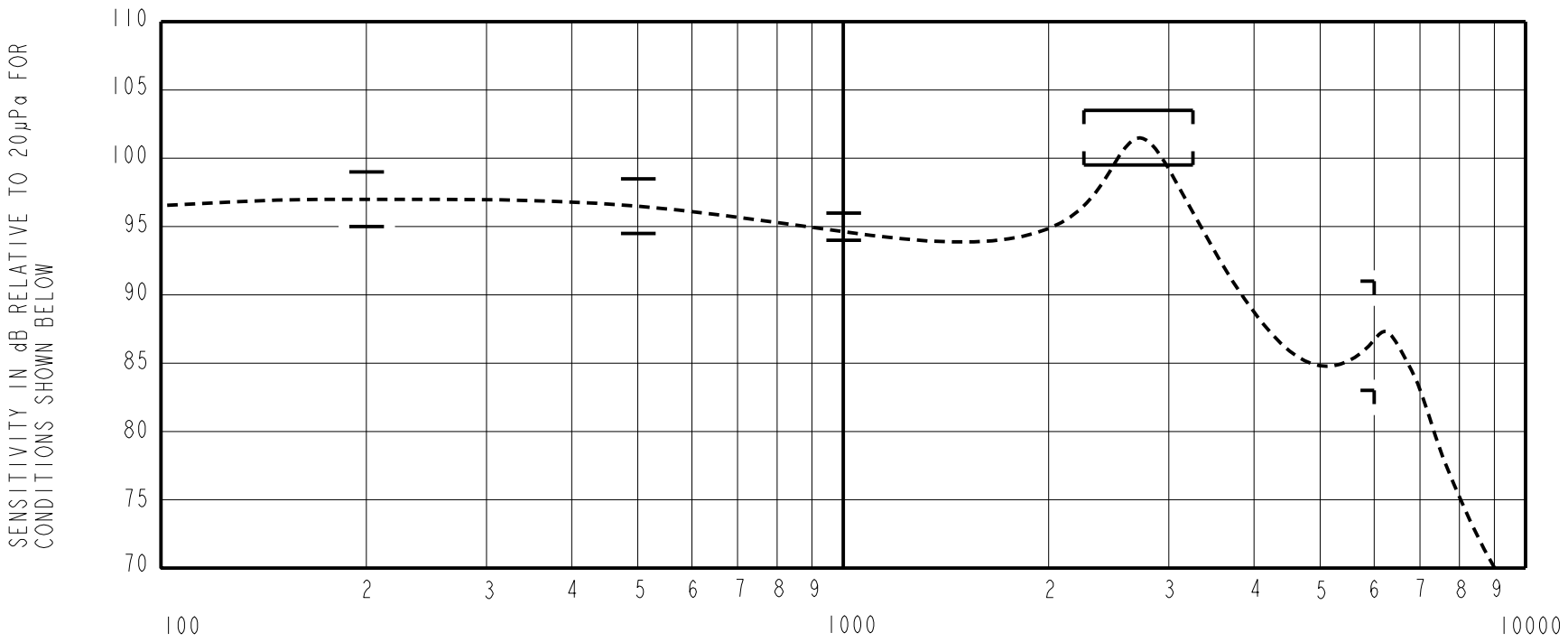
FK-30020-000
SHT 1.1

DR. BY	DATE
CRG	5-30-06
CK. BY	DATE
GJP	6-5-06
APP. BY	DATE
GJP	6-5-06

KEIIIASIZE.FRM Rev: B

THE FK-30020-000 IS AN UNDAMPED MAGNETIC BALANCED ARMATURE RECEIVER INTENDED FOR USE IN CIC HEARING INSTRUMENTS. THIS MODEL HAS A CENTER TERMINAL CONNECTED TO CASE AND WITH TIGHTER 1KHz SENSITIVITY TOLERANCE.

CONSTANT VOLTAGE DRIVE CONDITIONS



ACOUSTICAL

SENSITIVITY
DEVICE WILL PRODUCE THE SPL LISTED BELOW UNDER TEST CONDITIONS DESCRIBED IN TABLE 3.
NOMINAL SENSITIVITY AT 1kHz IS dB RELATIVE TO 20µPa. ALL OTHER VALUES IN dB RELATIVE TO THE SENSITIVITY AT 1kHz.

FREQUENCY (Hz)	*MINIMUM*	*NOMINAL*	*MAXIMUM*
200	+0.5	+2.5	+4.5
500	-0.5	+1.5	+3.5
1000	-1.0	95.0	+1.0
2450 - 3250	+5.5	+7.5	+9.5
6000	-12.0	-8.0	-4.0

TABLE 1

PORT LOCATION: 12N
SOLDER TYPE: SAC305

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

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

FREQUENCY (Hz)	*AC DRIVE (V rms)*	*DC BIAS (V)*	*LIMIT (%)*
920	0.35	0	5
1380	0.35	0	5
920	0.99	0	10

TABLE 2

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.35 V rms, 0 mA DC BIAS
SOURCE IMPEDANCE	<1 Ohm
TUBING	10mm [.394"] LONG, 1mm [.039"] I.D.
COUPLER CAVITY	2 CM^3, SIMULATED ANSI S3.7 TYPE HA-3 (IEC-60318-5)

TABLE 3

ELECTRICAL

DC RESISTANCE	360 Ohms ± 10%
IMPEDANCE @ 500 Hz	432 Ohms ± 15%
IMPEDANCE @ 1kHz	590 Ohms ± 15%

TABLE 4

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

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F	C10111937	1-7-11	Active	F
E	C10108259P	12-29-08		
D	C10105742	4-25-07		

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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	FK-30020-000	
PERFORMANCE SPECIFICATION	SHT 2.1	

DR. BY	DATE
CRG	5-30-06
CK. BY	DATE
GJP	6-5-06
APP. BY	DATE
GJP	6-5-06