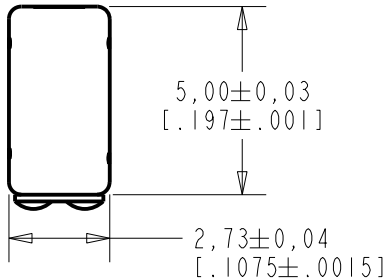
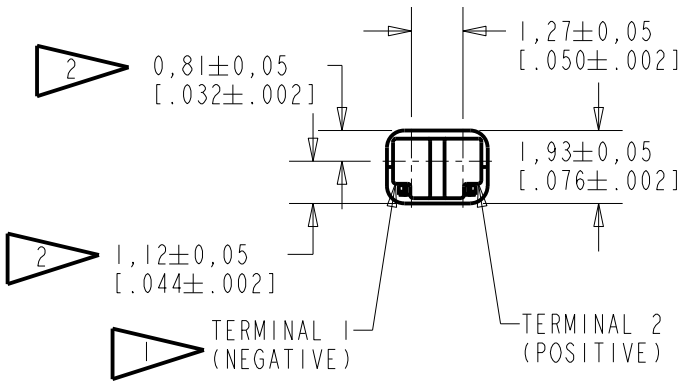
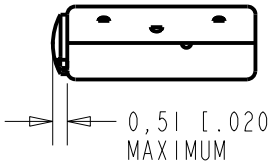
FK-30040-000
SHT 1.1

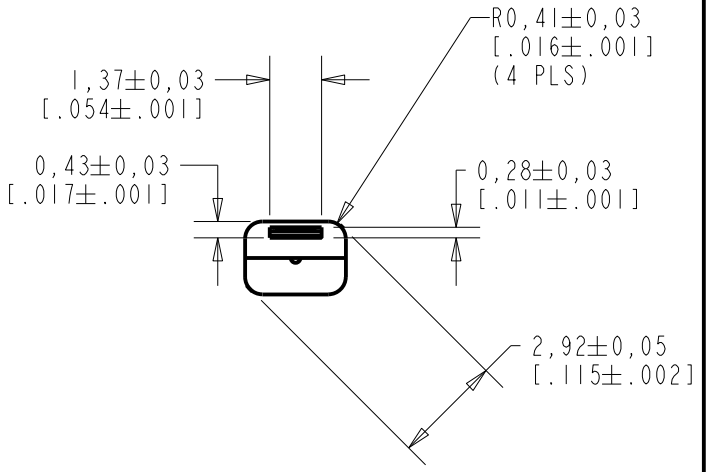
NOTES:

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.











SCALE 2:1
NOMINAL WEIGHT
.11 GRAMS

DIMENSIONS IN MILLIMETERS [INCHES]

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
F	C10112085	2-10-11	Active	F
E	C10111950	12-20-10		
D	C10110508	11-17-09		

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

SCALE: 5:1

DO NOT SCALE DRAWING

TITLE: RECEIVER
OUTLINE DRAWING

FK-30040-000
SHT 1.1

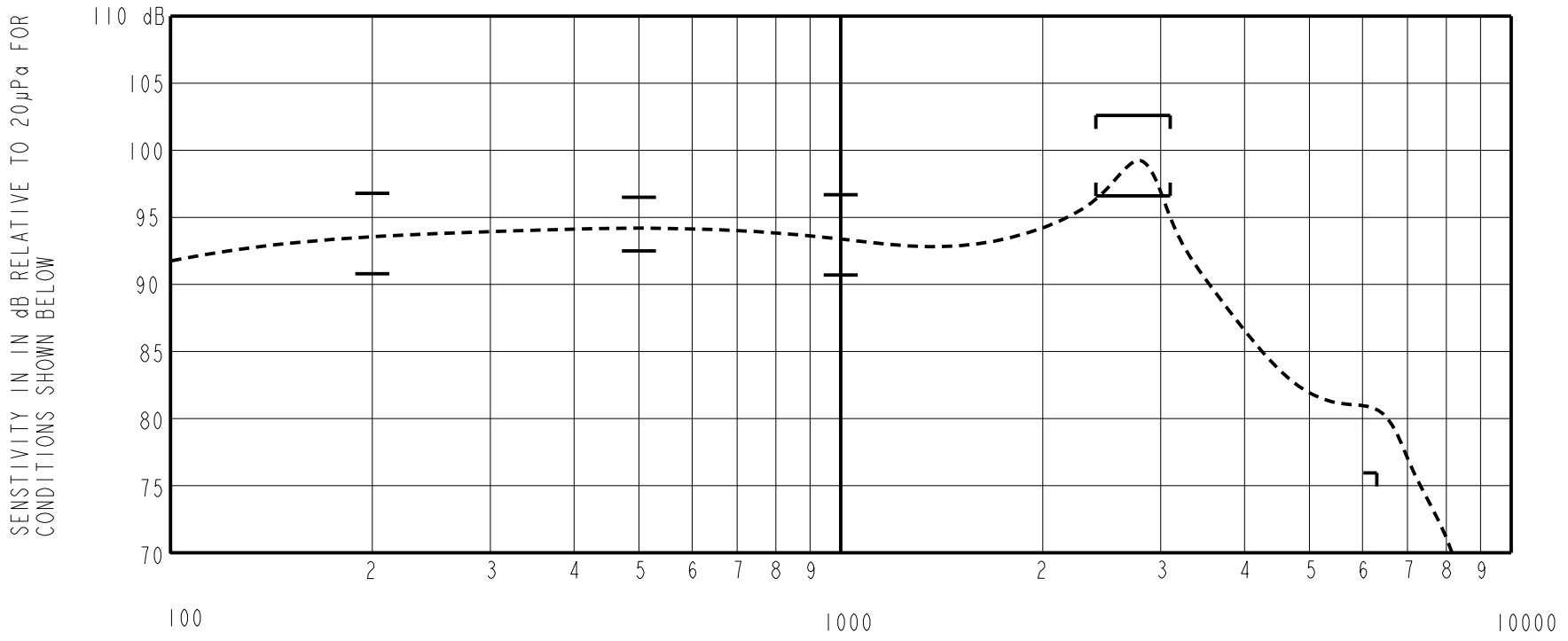
DR. BY	DATE
MMM	8-18-06
CK. BY	DATE
GJP	8-18-06
APP. BY	DATE
GJP	8-18-06

KEIIIASIZE.FRM Rev: B

THE FK-30040-000 IS A TYPE III DAMPING MAGNETIC BALANCED ARAMTURE RECEIVER INTENDED FOR USE CIC HEARING INSTRUMENTS.

TYPE III DAMPING

FK-30040-000
SHEET 2.1



ACOUSTICAL

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

FREQUENCY (Hz)	*MINIMUM*	*NOMINAL*	*MAXIMUM*
200	-2.9	0.1	+3.1
500	-1.2	0.8	+2.8
1000	-3.0	93.7	+3.0
2400-3100	+2.9	+5.9	+8.9
6300	-17.6	---	---

TABLE 1

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

FREQUENCY (Hz)	*AC DRIVE (V rms)*	*DC BIAS (V)*	*LIMIT (%)*
900	0.180	0	5
1350	0.360	0	10

TABLE 2

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.180 V rms, 0 mA V 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	200 Ohms ± 10%*
IMPEDANCE @ 500 Hz	266 Ohms ± 15%*
IMPEDANCE @ 1kHz	351 Ohms ± 15%*

TABLE 4

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

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

MECHANICAL

PORT LOCATION: 12N
SOLDER TYPE: SAC305

TEMPERATURE:
OPERATING: SENSITIVITY AT 500 Hz WILL NOT VARY MORE THAN ± 3 dB FROM -17°C TO 63°C.
STORAGE : -40°C TO 63°C

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
F	C10112085	2-10-11	Active	F
E	C10111950	12-20-10		
D	C10110508	11-17-09		

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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
PERFORMANCE SPECIFICATION

FK-30040-000
SHT 2.1

DR. BY	DATE
MMM	8-18-06
CK. BY	DATE
GJP	8-18-06
APP. BY	DATE
GJP	8-18-06