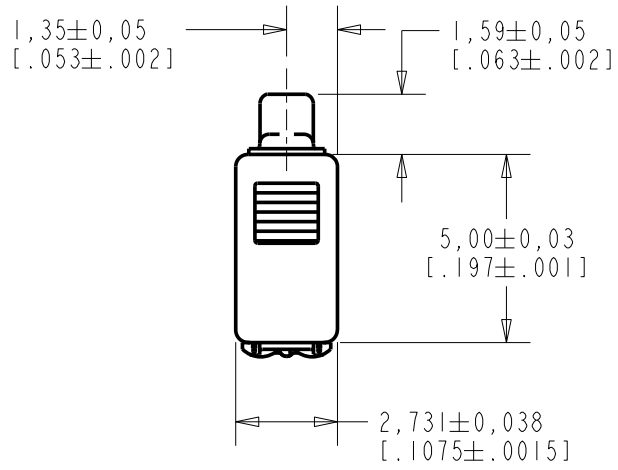
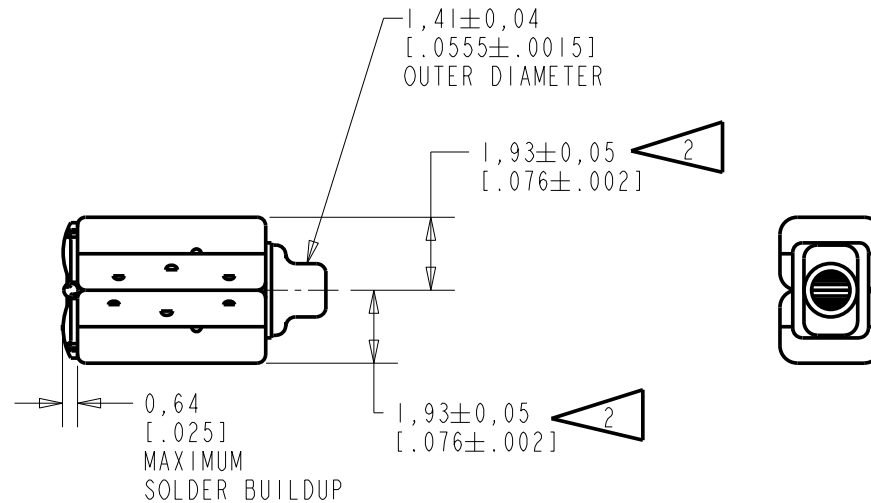
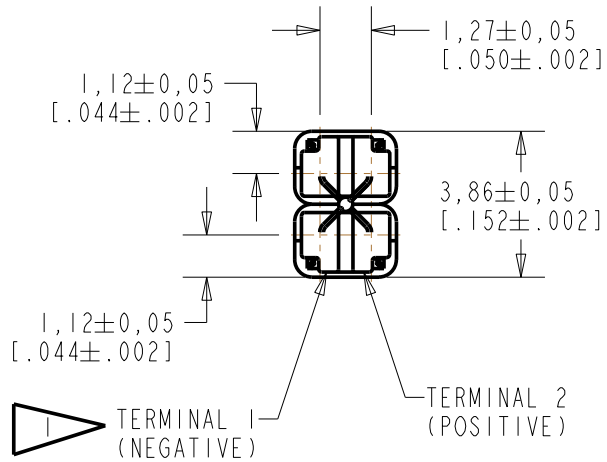


**DFK-30041-000**  
SHT 1.1



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.



Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
F	CI0108259P	12-17-08	<b>Active</b>	<b>F</b>
E	CI0106795	1-25-08		
D	CI0106978	1-11-08		



SCALE 2:1 DIMENSIONS IN MILLIMETERS [INCHES]

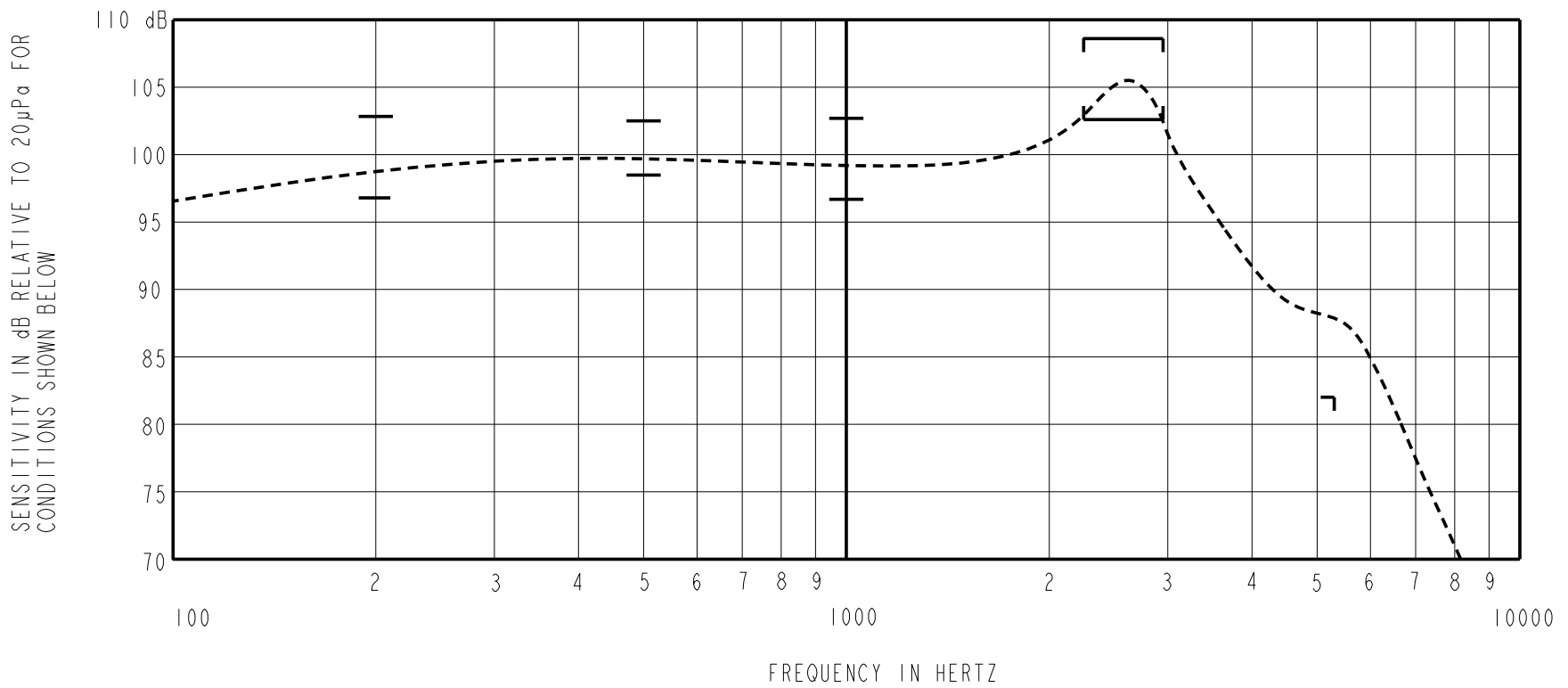
**KNOWLES ELECTRONICS**  
ITASCA, ILLINOIS U.S.A.

SCALE: <b>5:1</b>	DR. BY DATE MMM 8-18-06
DO NOT SCALE DRAWING	CK. BY DATE GJP 8-18-06
TITLE: <b>RECEIVER</b>	APP. BY DATE GJP 8-18-06
<b>OUTLINE DRAWING</b>	
<b>DFK-30041-000</b>	
<b>SHT 1.1</b>	

THE DFK-30041-000 IS A TYPE III DAMPING MAGNETIC BALANCED ARAMTURE RECEIVER INTENDED FOR USE CIC HEARING INSTRUMENTS.

TYPE III DAMPING

DFK-30041-000  
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	99.7	+3.0
2250-2950	+2.9	+5.9	+8.9
5300	-17.7	---	---

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 (%)
860	0.180	0	5
1300	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 <sup>3</sup> , SIMULATED ANSI S3.7 TYPE HA-3 (IEC 126)

TABLE 3

ELECTRICAL

DC RESISTANCE	100 Ohms ± 10%*
IMPEDANCE @ 500 Hz	133 Ohms ± 15%*
IMPEDANCE @ 1kHz	175 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: 12S  
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	C10108259P	12-17-08	Active	F
E	C10106795	1-25-08		
D	C10106978	1-11-08		

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

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

**DFK-30041-000**  
**SHT 2.1**

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