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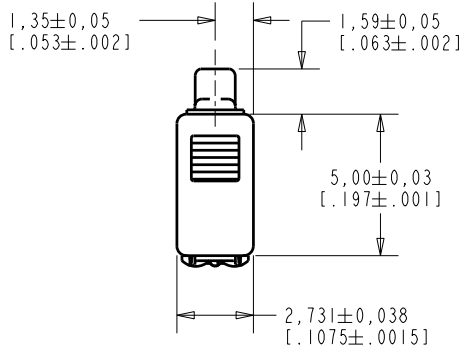
[Knowles](#)

[DFK-30041-000](#)

For any questions, you can email us directly:

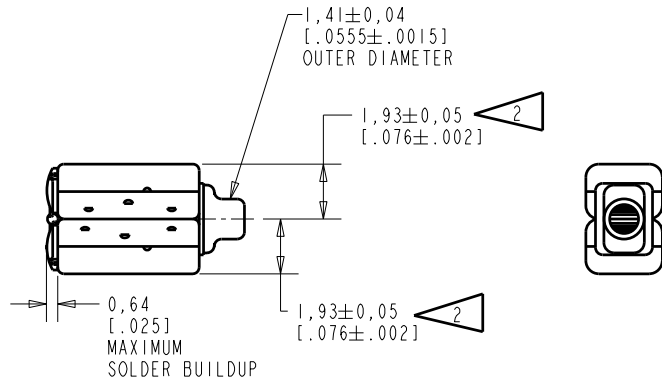
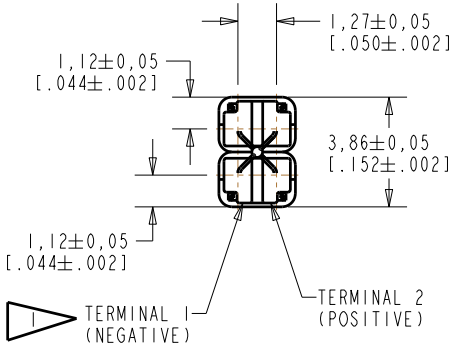
[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

**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.



SCALE 2:1 DIMENSIONS IN MILLIMETERS [INCHES]

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.

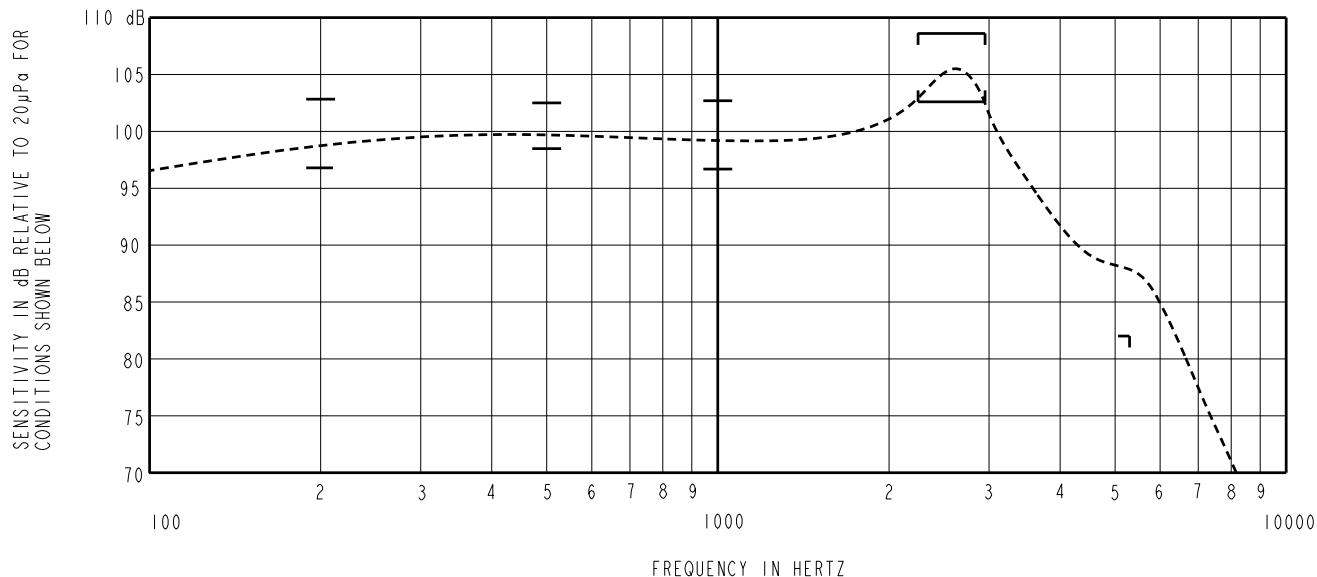
SCALE: 5:1	DR. BY: MMM	DATE: 8-18-06
DO NOT SCALE DRAWING	CK. BY: GJP	DATE: 8-18-06
TITLE: RECEIVER	APP. BY: GJP	DATE: 8-18-06
OUTLINE DRAWING	DFK-30041-000	SHT 1.1

TYPE III DAMPING

DFK-30041-000

SHEET 2.1

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



**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