



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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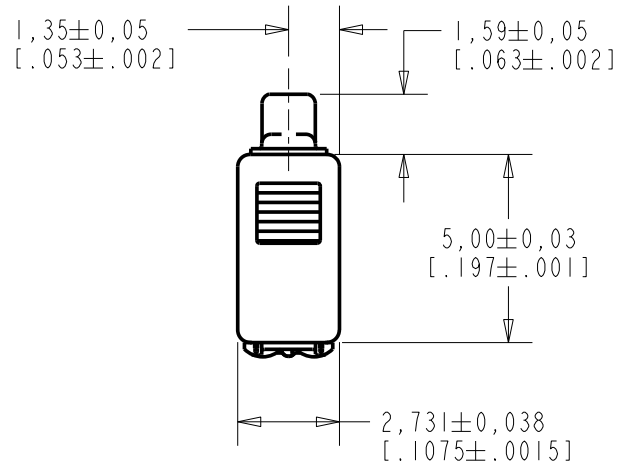
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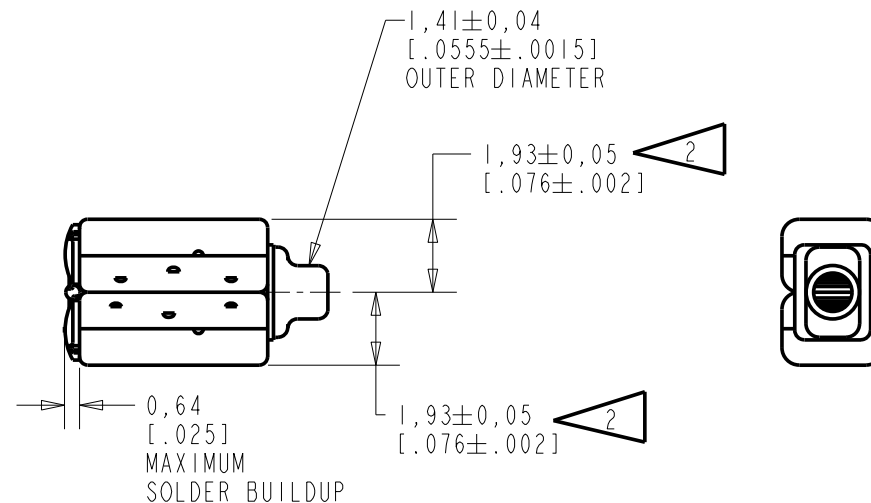
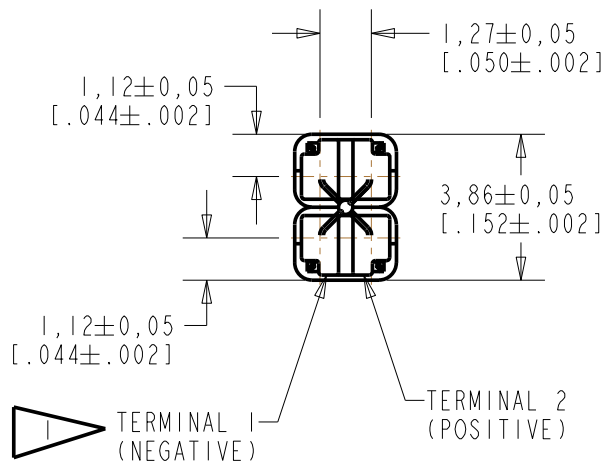
DFK-30041-000

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	CI0108259P	12-17-08	Active	F
E	CI0106795	1-25-08		
D	CI0106978	1-11-08		

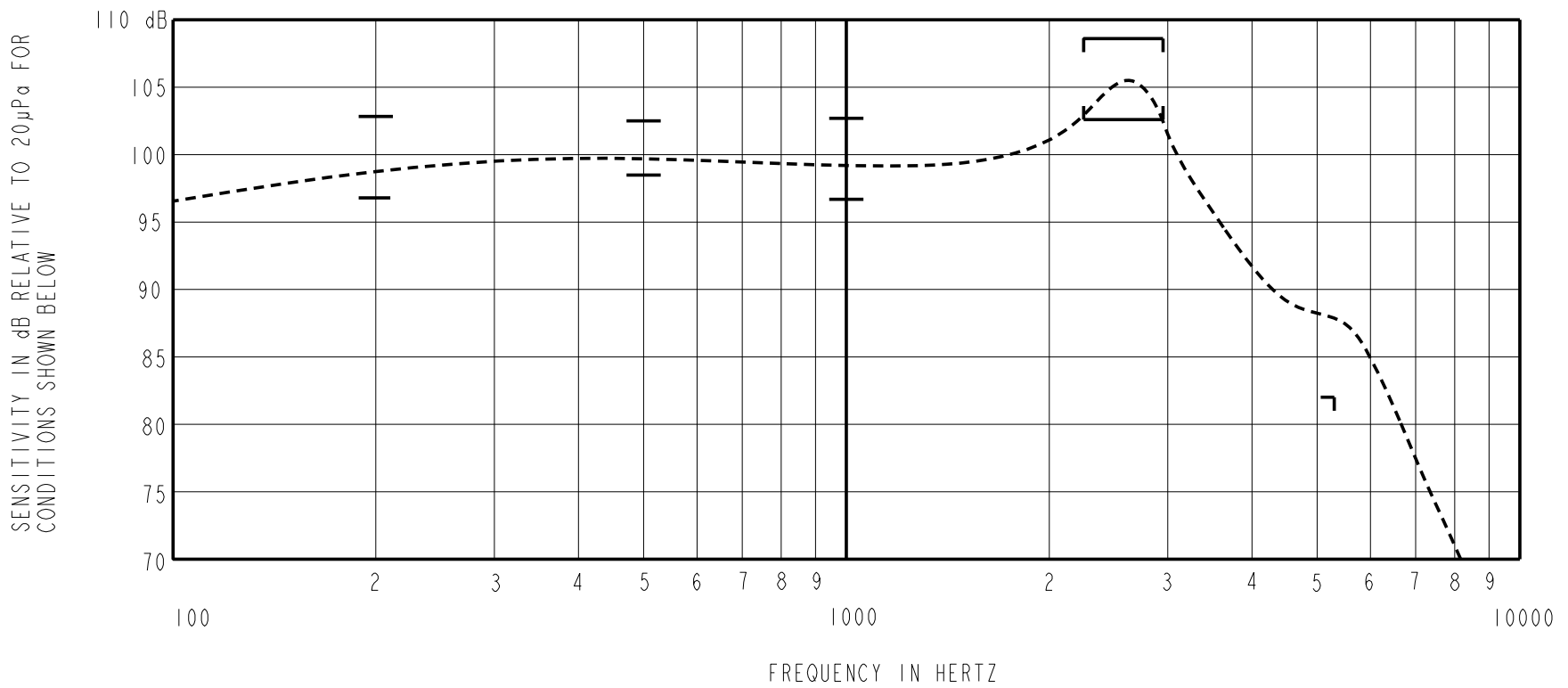
SCALE: 5:1	DR. BY MMM	DATE 8-18-06
DO NOT SCALE DRAWING	CK. BY GJP	DATE 8-18-06
TITLE: RECEIVER OUTLINE DRAWING	DFK-30041-000 SHT 1.1	
	APP. BY GJP	DATE 8-18-06

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

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 ³ , 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		

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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