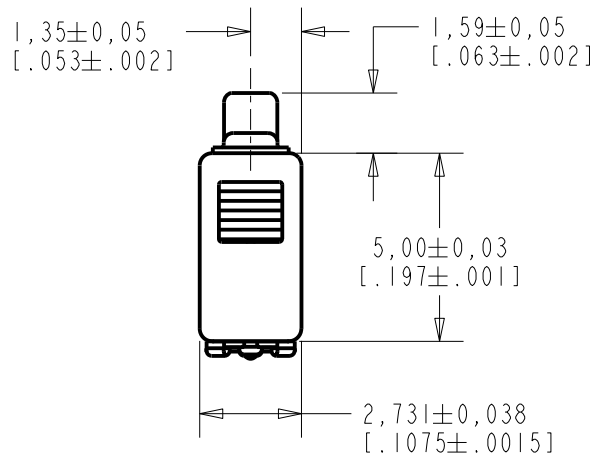
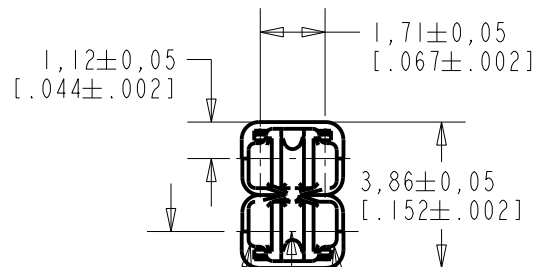


**DWFK-31785-000**  
SHT 1.1



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.

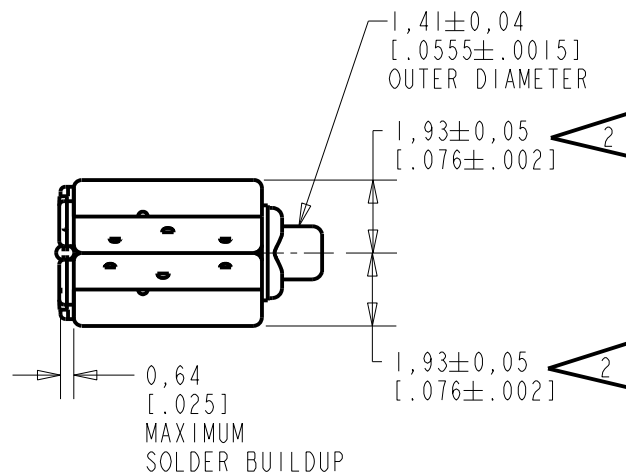


1,12±0,05  
[.044±.002]

1  
TERMINAL 1  
(NEGATIVE)

TERMINAL 2  
(POSITIVE)

UNUSED TERMINAL (2 PLS.)  
RUBBER SEAL REMOVED FOR  
BACK VENT AFTER FINAL TEST



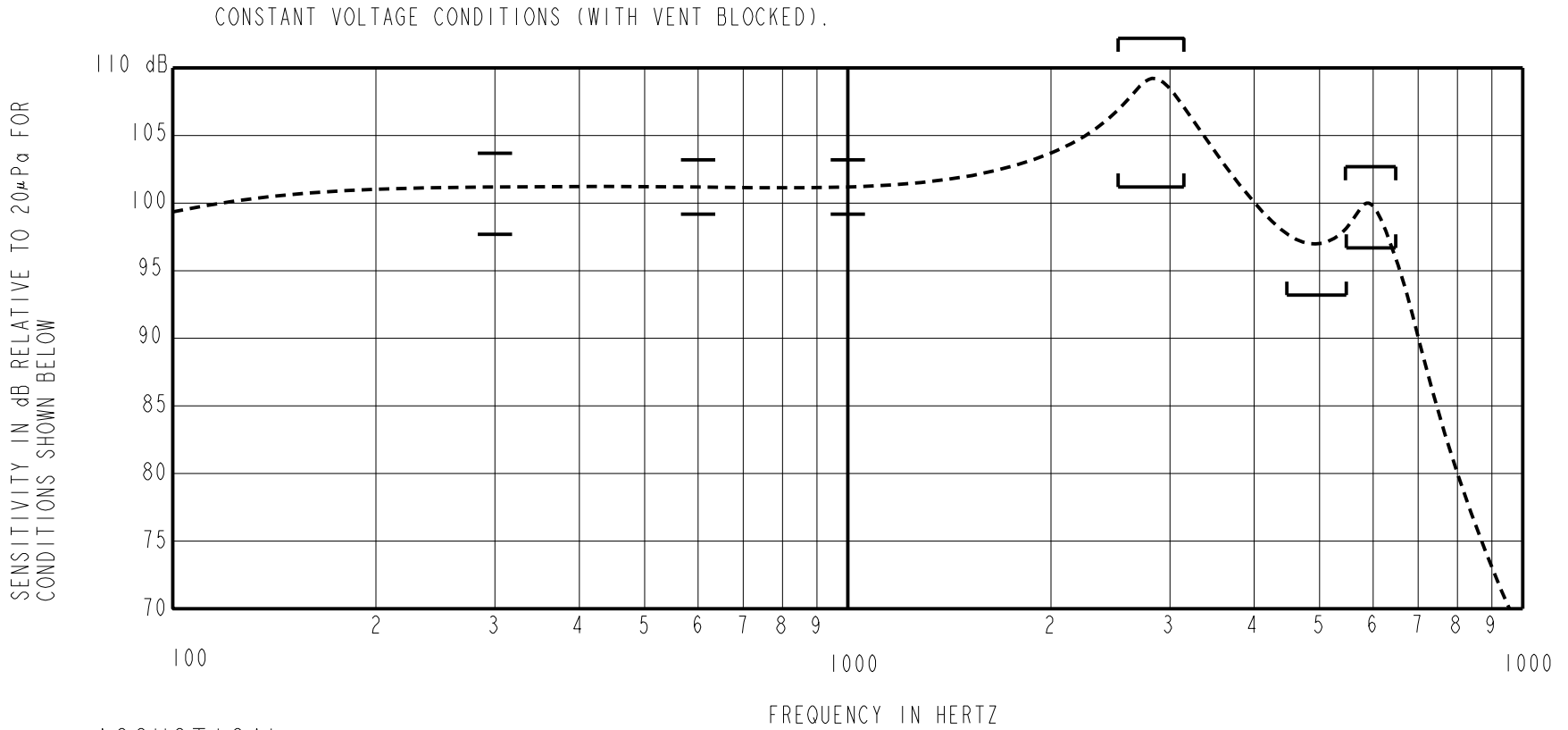
SCALE 2:1  
NOMINAL WEIGHT  
.212 GRAM

DIMENSIONS IN MILLIMETERS [INCHES]

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
A	C10114301	2-18-13	Active	A

SCALE: 5:1	DR. BY: LSY	DATE: 2-18-13
DO NOT SCALE DRAWING	CK. BY: GJP	DATE: 2-22-13
TITLE: RECEIVER	APP. BY: GJP	DATE: 2-22-13
OUTLINE DRAWING	DWFK-31785-000	SHT 1.1

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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.

LIMIT TYPE	FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
REL	200	-3.5	-0.5	+2.5
REL	500	-2.0	0.0	+2.0
REF	1000	-2.0	101.2	+2.0
PEAK1	2565-3165	+5.0	+8.0	+11.0
VALLEY1	4500-5500	-8.0	---	---
PEAK2	5500-6500	-4.5	-1.5	+1.5

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 (%)
1/3 PEAK1 (TYP. 955)	0.146	0	5
1/2 PEAK1 (TYP. 1433)	0.146	0	5
1/3 PEAK1 (TYP. 955)	0.411	0	10
1/2 PEAK1 (TYP. 1433)	0.411	0	10

TABLE 2

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.146 V rms, 0 mA DC BIAS
SOURCE IMPEDANCE	<0.2 Ohm
TUBING	10mm [.394"] LONG, 1mm [.039"] I.D.
COUPLER CAVITY	2 CM <sup>3</sup> , SIMULATED ANSI S3.7 TYPE HA-3 (IEC 60318-5)

TABLE 3

ELECTRICAL

DC RESISTANCE	25.0 Ohms ± 10%*
IMPEDANCE @ 500 Hz	26.8 Ohms ± 15%*
IMPEDANCE @ 1kHz	30.1 Ohms ± 15%*

TABLE 4

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

MECHANICAL

PORT LOCATION: 12S  
SOLDER TYPE: SAC305  
TEMPERATURE

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

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Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
A	CI0114301	2-18-13	Active	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		DR. BY	DATE
TITLE: <b>RECEIVER</b> PERFORMANCE SPECIFICATION		LSY	2-18-13
		GJP	2-22-13
		GJP	2-22-13

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SHT 2.1