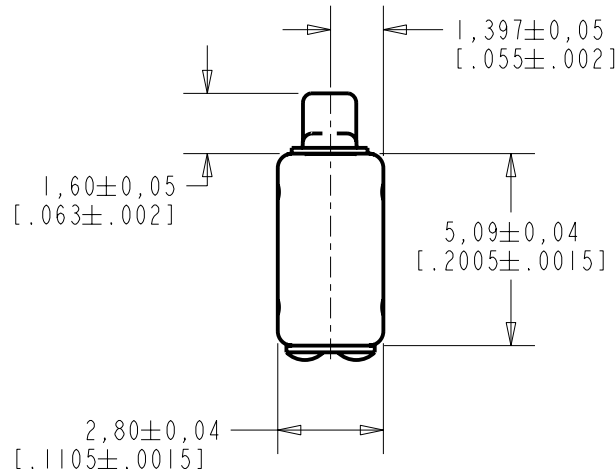
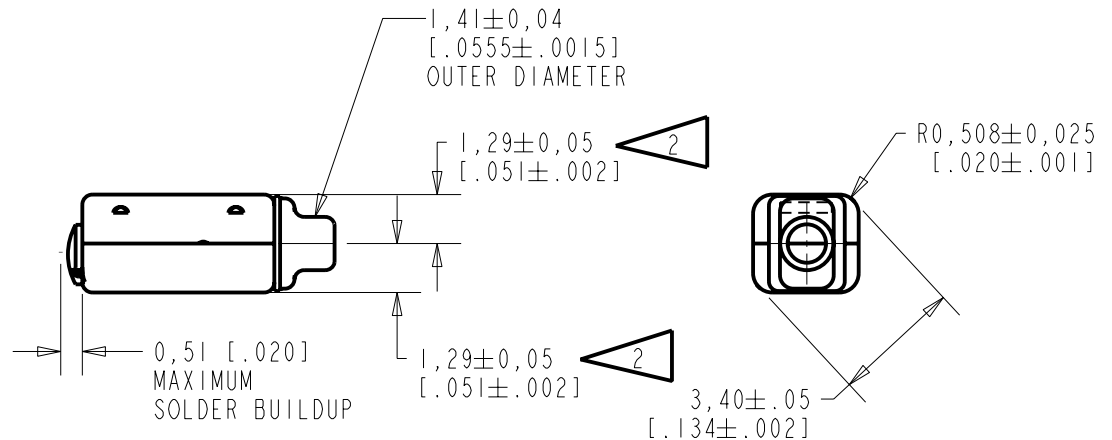
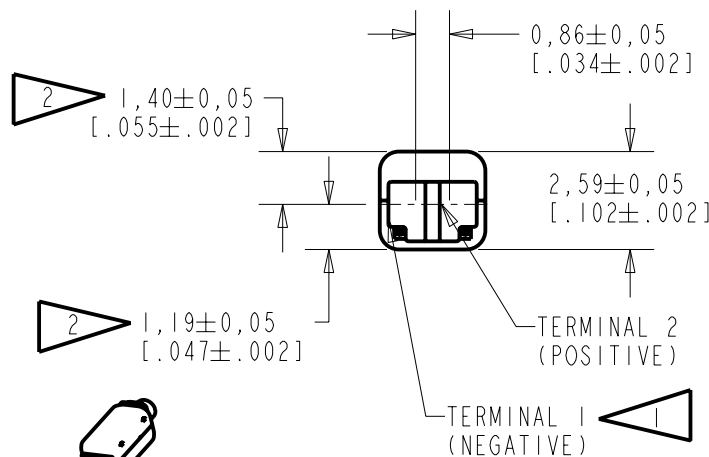


**FFH-26553-102**  
SHT 1.1



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, NOTE TO BE USED TOGETHER.



SCALE 2:1

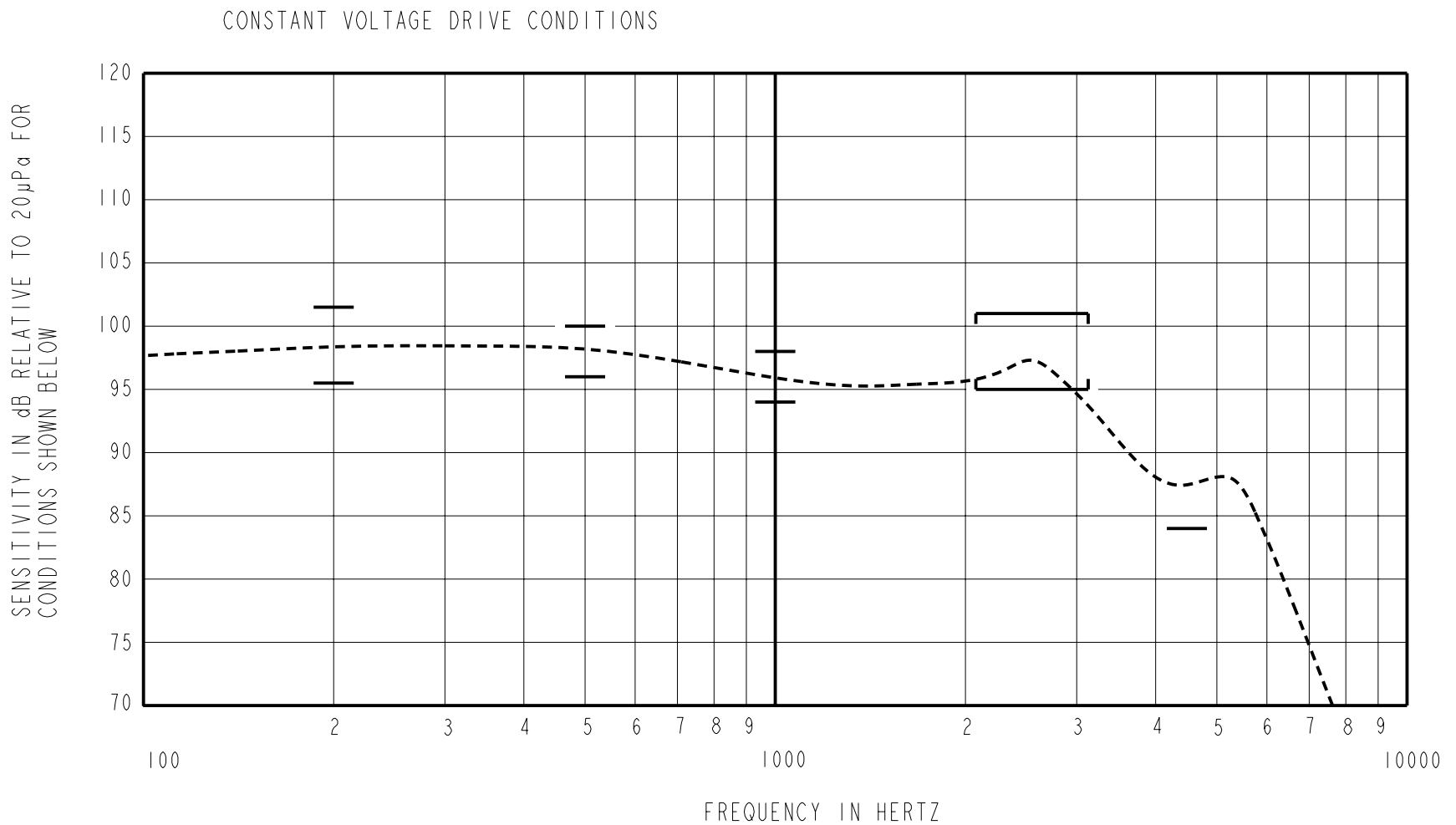
NOMINAL WEIGHT .18 GRAMS DIMENSIONS IN MILLIMETERS [INCHES]

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

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
B	C10105496	3-28-07	Released	B
A	C10103482	12-7-05		

SCALE: 5:1		DR. BY	DATE
DO NOT SCALE DRAWING		CRG	12-7-05
TITLE: RECEIVER		CK. BY	DATE
OUTLINE DRAWING		GJP	12-8-05
FFH-26553-102		APP. BY	DATE
SHT 1.1		GJP	12-8-05

THE FFH-26553-102 IS A FERROFLUID AND TYPE III DAMPED FH-26553 RECEIVER WITH A PEAK OF 2dB RELATIVE TO THE SENSITIVITY AT 1kHz UNDER CONSTANT VOLTAGE DRIVE CONDITIONS.



**ACOUSTICAL**

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

FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
200	-0.5	+2.5	+5.5
500	0.0	+2.0	+4.0
1000	-2.0	96.0	+2.0
2100 - 3100	-1.0	+2.0	+5.0
4500	-12.0	---	---

PORT LOCATION: 12S

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 (%)
500	0.352	0	10
870	0.125	0	6
1300	0.125	0	6

TABLE 2

**TEST CONDITIONS**

NOMINAL SOURCE VOLTAGE	0.125 V rms, 0 mA 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	58 Ohms ± 10%
IMPEDANCE @ 500 Hz	85 Ohms ± 15%
IMPEDANCE @ 1kHz	128 Ohms ± 15%

TABLE 4

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

TEMPERATURE: OPERATING RANGE FROM 0°C TO 63°C (SENSITIVITY WILL NOT VARY BY MORE THAN ±3 dB WITHIN RANGE)  
SENSITIVITY AT 0°C IS 2dB LOWER THAN THE SENSITIVITY AT ROOM TEMPERATURE.  
DELTA PEAK IS 1.5dB HIGHER AT BODY TEMPERATURE (37°C))  
STORAGE RANGE FROM -40°C TO 63°C

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
B	C10105496	3-28-07	<b>Released</b>	<b>B</b>
A	C10103482	12-7-05		
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			CRG	12-7-05
			FFH-26553-102	
SHT 2.1			CK. BY	DATE
			GJP	12-8-05
SHT 2.1			APP. BY	DATE
			GJP	12-8-05

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