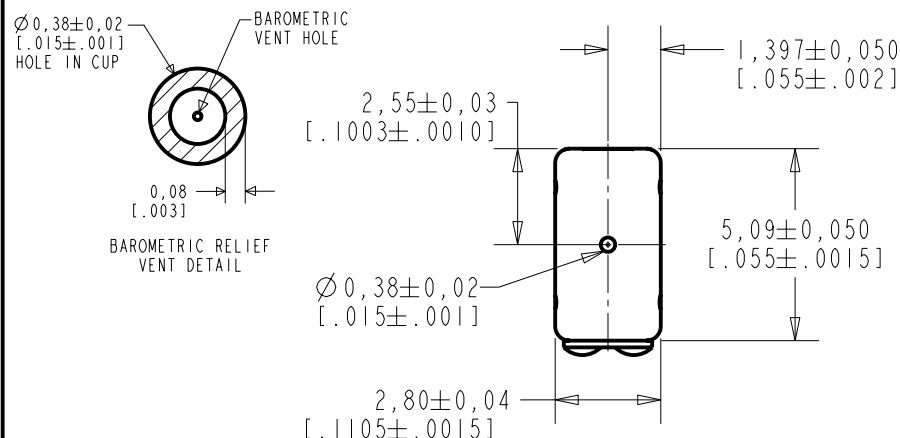


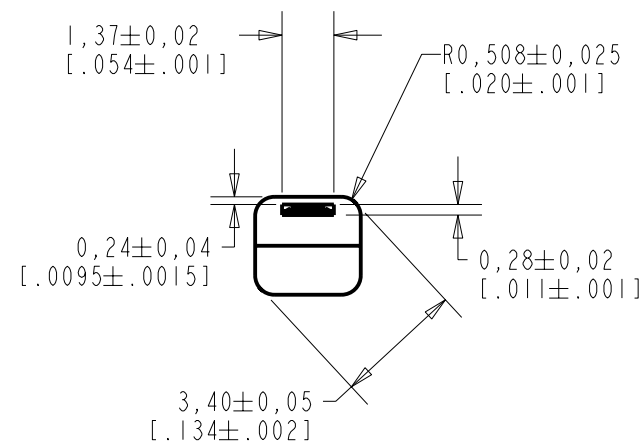
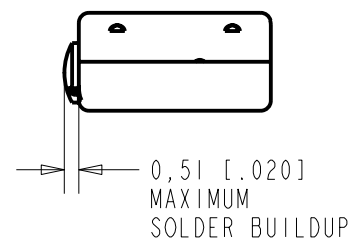
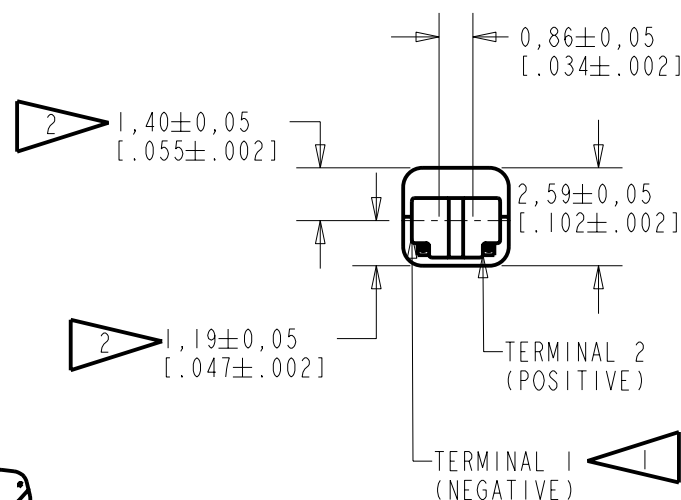
FFH-26857-105

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

NOMINAL WEIGHT
.18 GRAMS

DIMENSIONS IN MILLIMETERS [INCHES]

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			Released	D
D	C10105793	5-8-07		
SCALE: 5:1			DR. BY	DATE
DO NOT SCALE DRAWING			CRG	12-7-05
TITLE: RECEIVER OUTLINE DRAWING			CK. BY	DATE
			GJP	12-8-05
			APP. BY	DATE
			GJP	12-8-05
			SHT 1.1	

THE FFH-26857-105 IS A FERROFLUID DAMPED AND EXTERNALLY VENTED FH-6553 RECEIVER WITH A PEAK OF 5dB RELATIVE TO THE SENSITIVITY AT 1kHz UNDER CONSTANT VOLTAGE DRIVE CONDITIONS.

FERROFLUID AND
TYPE III DAMPING

FFH-26857-105
SHEET 2.1

CONSTANT VOLTAGE DRIVE CONDITIONS

SENSITIVITY IN dB RELATIVE TO 20μPa FOR
CONDITIONS SHOWN BELOW

120

115

110

105

100

95

90

85

80

75

70

2

3

4

5

6

7

8

9

2

3

4

5

6

7

8

9

100

1000

10000

FREQUENCY IN HERTZ

100

1000

10000

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	+3.0	+5.0	+7.0
4500	-12.0	---	---

PORT LOCATION: 12N

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	0.789	0	10
870	0.280	0	6
1300	0.280	0	6

TABLE 2

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.280 V rms, 0 mA 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	241 Ohms ± 10%
IMPEDANCE @ 500 Hz	343 Ohms ± 15%
IMPEDANCE @ 1kHz	522 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.
STORAGE RANGE FROM -40°C TO 63°C

Revision

C.O. #

Implementation Date

RELEASE LEVEL

REVISION

Released

D

D

C10105793

5-8-07

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

FFH-26857-105

SHT 2.1

DR. BY

DATE

CRG

12-7-05

CK. BY

DATE

GJP

12-8-05

APP. BY

DATE

GJP

12-8-05

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