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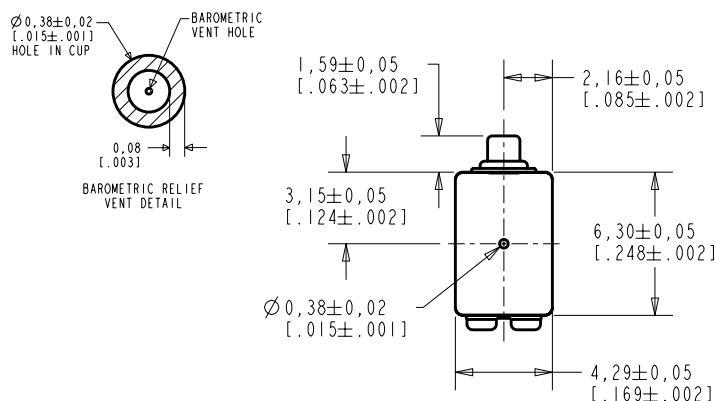
[FED-26859-I06](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

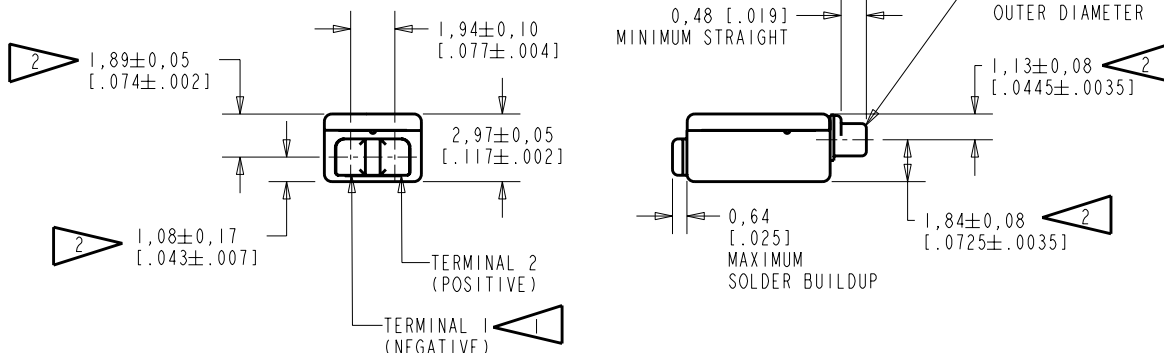
FED-26859-106

SHT 1.1



NOTE:

- 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. HORIZONTAL LOCATION FOR TERMINAL CENTERED TO ± 0.17 [0.007].



SCALE 2:1

NOMINAL WEIGHT
.31 GRAMS

DIMENSIONS IN MILLIMETERS [INCHES]

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
C	C10106174	7-19-07	Released	C
B	C10104075	3-30-06		
A	C10103751	1-4-06		

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

SCALE:	4:1	DR. BY	DATE
	DO NOT SCALE DRAWING	CRG	1-4-06
TITLE:	RECEIVER	CK. BY	DATE
	OUTLINE DRAWING	GJP	1-5-06
	FED-26859-106	APP. BY	DATE
	SHT 1.1	GJP	1-5-06

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Rev: B

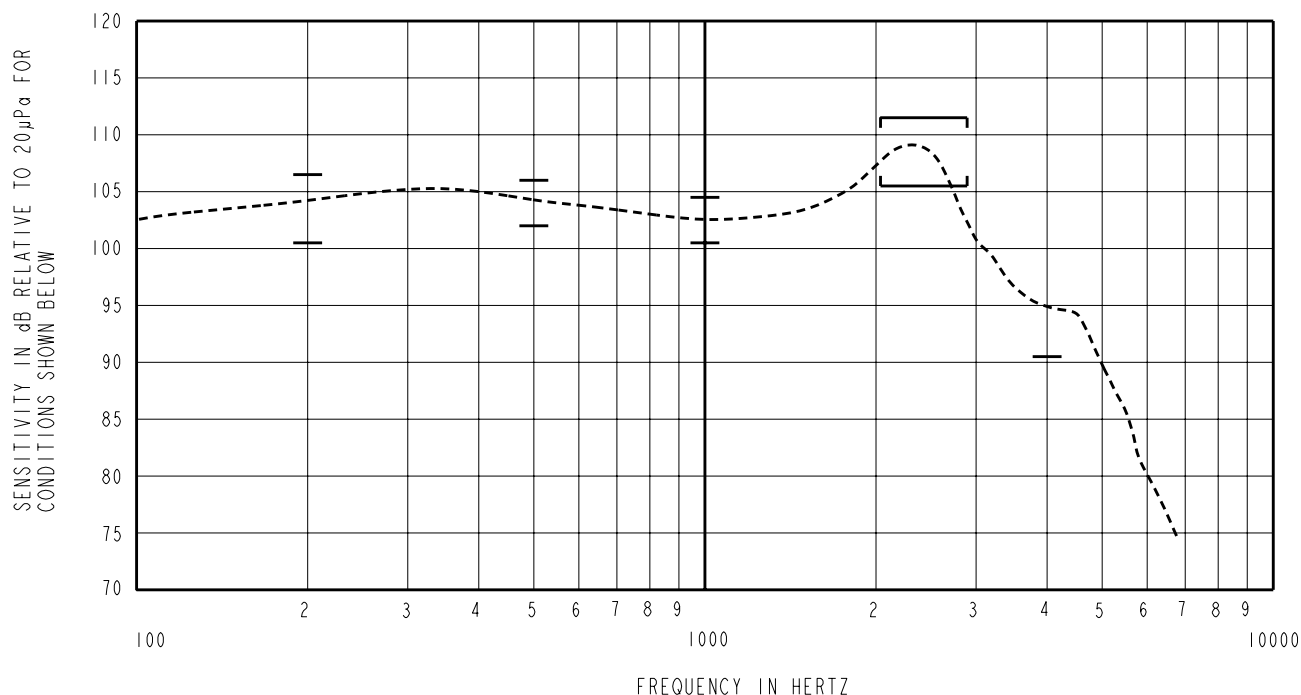
*FERROFLUID AND
TYPE III DAMPING*

FED-26859-106

SHEET 2.1

THE FED-26859-106 IS A FERROFLUID AND TYPE III DAMPED RECEIVER WITH EXTERNAL VENT AND A PEAK OF 6dB RELATIVE TO THE SENSITIVITY AT 1kHz UNDER CONSTANT VOLTAGE DRIVE CONDITIONS. THIS MODEL HAS INCREASED DCR/IMPEDANCE RATIO.

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	-2.0	+1.0	+4.0
500	-0.5	+1.5	+3.5
1000	-2.0	102.5	+2.0
2000 - 3000	+3.0	+6.0	+9.0
4000	-12.0	---	---

PORT LOCATION: 12C

TABLE 1

TOTAL HARMONIC DISTORTION

DEVICE WILL NOT EXCEED TOTAL HARMONIC DISTORTION LEVELS LISTED BELOW.

FREQUENCY (Hz)	AC DRIVE (V rms)	DC BIAS (mA)	LIMIT (%)
500	0.470	0	10
830	0.167	0	5
1250	0.167	0	5

TABLE 2

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.167 V rms, 0mA 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	48 OHMS ± 10%
IMPEDANCE @ 500 Hz	65 OHMS ± 15%
IMPEDANCE @ 1 kHz	100 OHMS ± 15%

TABLE 4

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

BAROMETRIC RELIEF: THE AIR FLOW THROUGH THE BAROMETRIC RELIEF VENT TO BE 1.0 TO 2.5 CC/MIN WHEN AIR PRESSURE OF 15 INCHES WATER (3736 Pa) IS APPLIED TO THE PORT APERTURE.

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 1dB HIGHER AT BODY TEMPERATURE (37°C)