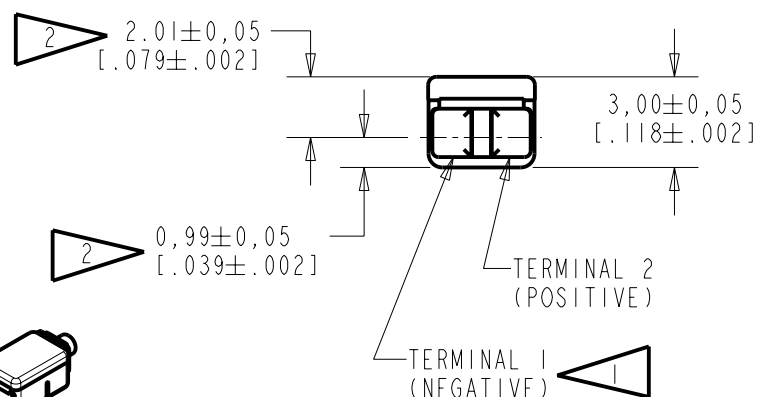
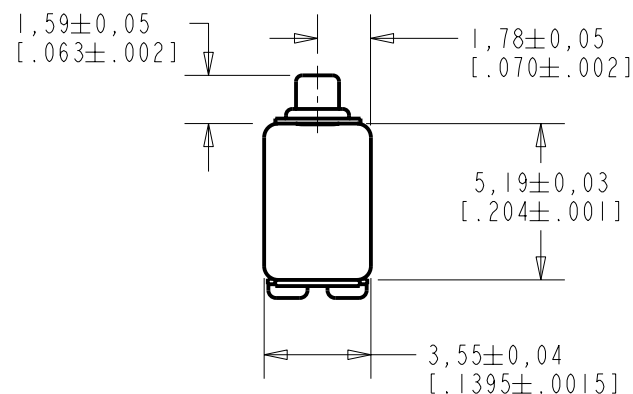


FEH-27318-106

SHT 1.1

NOTES:

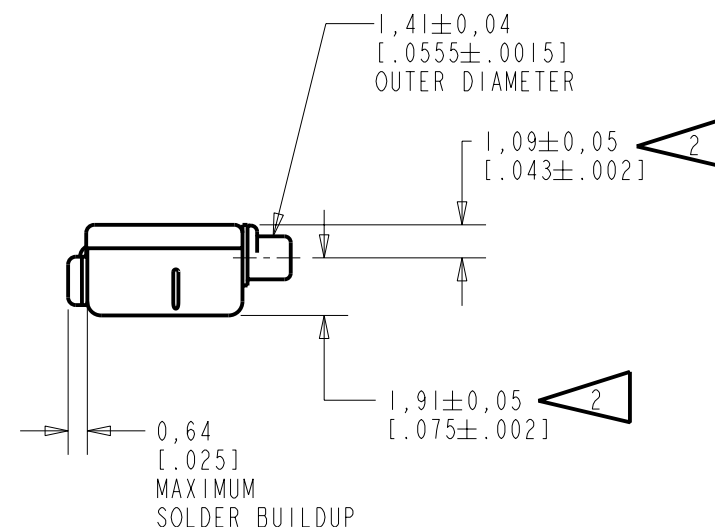
- 1 A POSITIVE GOING VOLTAGE AT TERMINAL 2, RELATIVE TO TERMINAL 1, CAUSES A DECREASE IN PRESSURE AT THE SOUND OUTLET.
- 2 LOCATED FROM TWO SURFACES FOR CUSTOMER CONVENIENCE. ONLY APPLICABLE FROM ONE SURFACE, NOT TO BE USED TOGETHER.



SCALE 2:1

NOMINAL WEIGHT
.23 GRAMS

DIMENSIONS IN MILLIMETERS [INCHES]



KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			Released	A
A	CI0103591	2-8-06		

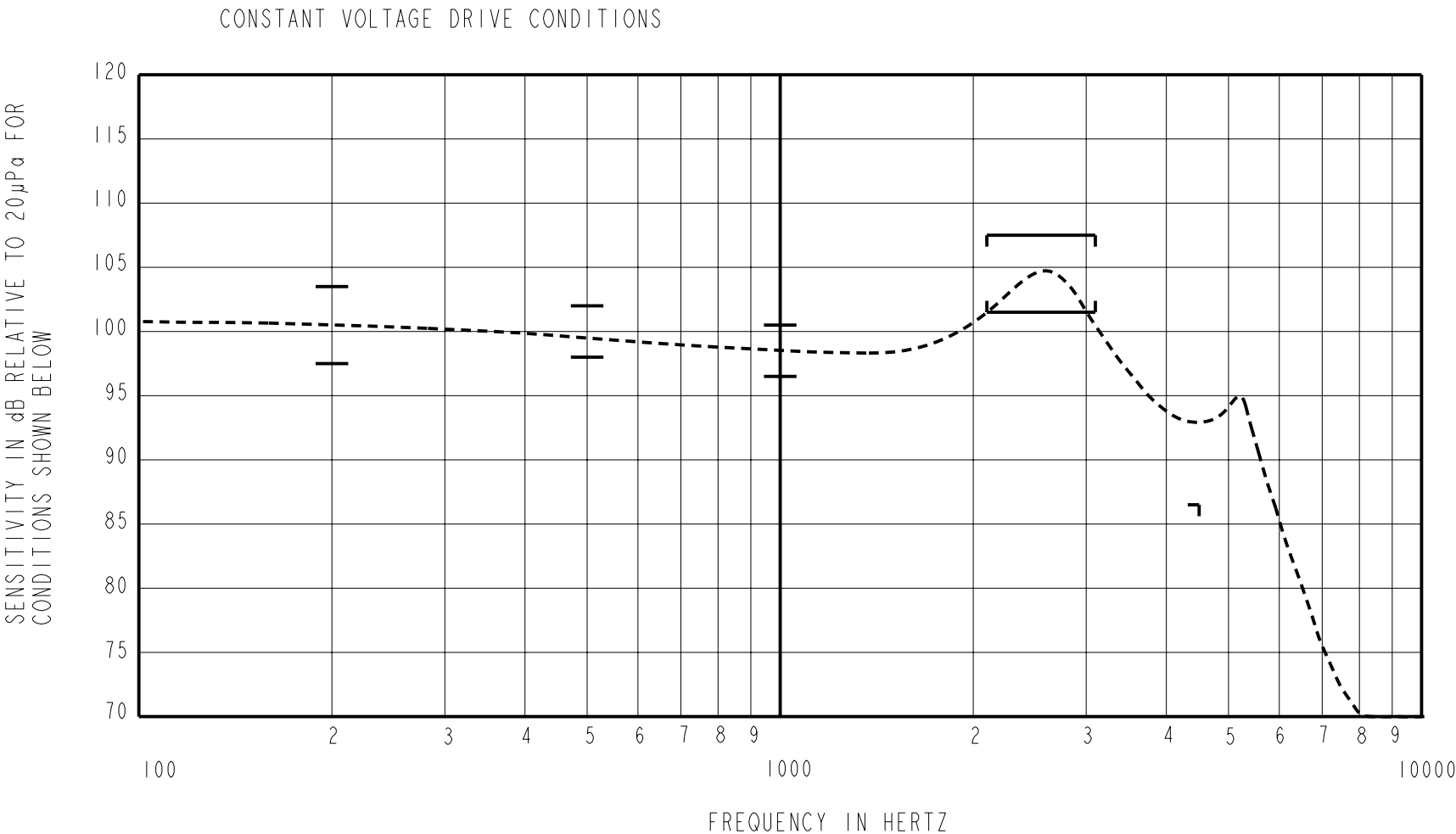
SCALE:	4:1	DR. BY	DATE
DO NOT SCALE DRAWING		AB	2-8-06
TITLE:	RECEIVER	CK. BY	DATE
		GJP	2-12-06
		APP. BY	DATE
	OUTLINE DRAWING	GJP	2-12-06

FEH-27318-106
SHT 1.1

THE FEH-27318-106 IS A FERROFLUID AND TYPE III DAMPED EH-27318-000 RECEIVER WITH A PEAK OF 6dB RELATIVE TO THE SENSITIVITY AT 1kHz UNDER CONSTANT VOLTAGE DRIVE CONDITIONS.

FERROFLUID AND
TYPE III DAMPING

FEH-27318-106
SHEET 2.1



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	-1.0	+2.0	+5.0
500	-0.5	+1.5	+3.5
1000	-2.0	98.5	+2.0
2100 - 3100	+3.0	+6.0	+9.0
4500	-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 (V)	LIMIT (%)
500	0.672	0	10
866	0.238	0	5
1350	0.238	0	5

TABLE 2

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.238 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	68 Ohms ± 10%
IMPEDANCE @ 500 Hz	110 Ohms ± 15%
IMPEDANCE @ 1kHz	180 Ohms ±15%

TABLE 4

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

TEMPERATURE: OPERATING RANGE FROM 0°C TO 63°C (SENSITVITY 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		
			Released	A		
A	C10103591	2-8-06				
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	
			AB		2-8-06	
			CK. BY		DATE	
			GJP		2-12-06	
TITLE: RECEIVER PERFORMANCE SPECIFICATION			FEH-27318-106		APP. BY	DATE
			SHT 2.1		GJP	2-12-06

Mouser Electronics

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Knowles:

[FEH-27318-I06](#)