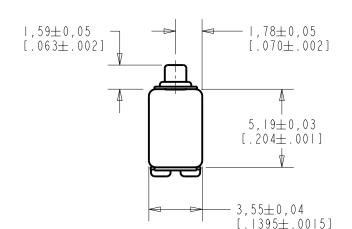
FEH-29833-102

SHT I.I



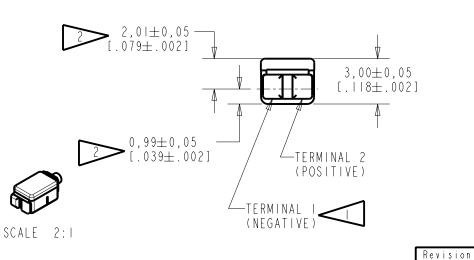
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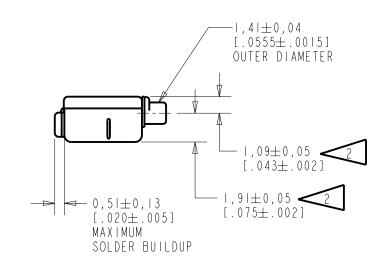


➤ A POSITIVE GOING VOLTAGE AT TERMINAL 2, RELATIVE TO TERMINAL I, CAUSES A DECREASE IN PRESSURE AT THE SOUND OUTLET.



LOCATED FROM TWO SURFACES FOR CUSTOMER CONVENIENCE. ONLY APPLICABLE FROM ONE SURFACE, NOT TO BE USED TOGETHER.





NOMINAL WEIGHT .23 GRAMS

DIMENSIONS IN MILLIMETERS [INCHES]

Released C10103591 2-8-06 SCALE: 4: I AΒ DO NOT SCALE DRAWING CK. BY

Implementation Date

OUTLINE DRAWING

C.O. #

TITLE:

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

RECEIVER FEH-29833-102

SHT I.I

RELEASE LEVEL

GJP 2-12-06 APP. BY DATE 2-12-06

REVISION

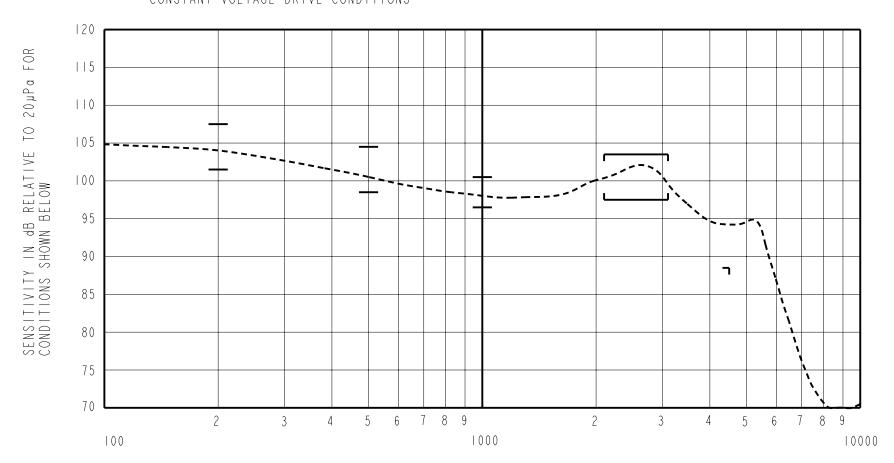
2-8-06

DATE

FEH-29833-102 SHEET 2.1

THE FEH-29833-102 IS A FERROFLUID DAMPED EH-29833-000 RECEIVER WITH A PEAK OF 2dB RELATIVE TO THE SENSITIVITY AT IKHZ UNDER CONSTANT VOLTAGE DRIVE CONDITIONS.

CONSTANT VOLTAGE DRIVE CONDITIONS



## **ACOUSTICAL**

FREQUENCY IN HERTZ

SENSITIVITY

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

FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
200	+ 3 . 0	+6.0	+9.0
500	0.0	+3.0	+6.0
1000	-2.0	98.5	+2.0
2600 - 3600	-1.0	+2.0	+5.0
4500	-10.0		

PORT LOCATION: 12C

TABLE I

TOTAL HARMONIC DISTORTION

DEVICE WILL NOT EXCEED TOTAL HARMONIC DISTORTION LEVELS LISTED BELOW.

FREQUENCY (Hz)	AC DRIVE (V rms)	DC BIAS (V)	LIMIT (%)
500	1.0	0	10
870	0.38	0	6
1300	0.38	0	6

TABLE 2

## TEST CONDITIONS

I LOT COMDITIONS		
NOMINAL SOURCE VOLTAGE	0.38 V rms, 0 mA DC BIAS	
SOURCE IMPEDANCE	Ohm</th	
TUBING		
COUPLER CAVITY	2 CM <sup>3</sup> , SIMULATED ANSI S3.7 TYPE HA-3 (IEC 126)	

TABLE 3

## ELECTRICAL

DC RESISTANCE	197 Ohms ± 10%
IMPEDANCE @ 500 Hz	330 Ohms $\pm$ 15%
IMPEDANCE @ IkHz	550 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  $\pm 3$  dB WITHIN RANGE)

TITLE:

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
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			Keleased	I A I
А	C10103591	2-8-06	_	

FEH-29833-102

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

WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION DR. BY CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION

AB

RECEIVER

PERFORMANCE SPECIFICATION

SO REQUIRED FOR	AB	2 - 8 - 06
	CK. BY	DATE
29833-102	GJP	2-12-06
20000 102	APP. BY	DATE
SHT 2.1	GJP	2-12-06

DATE