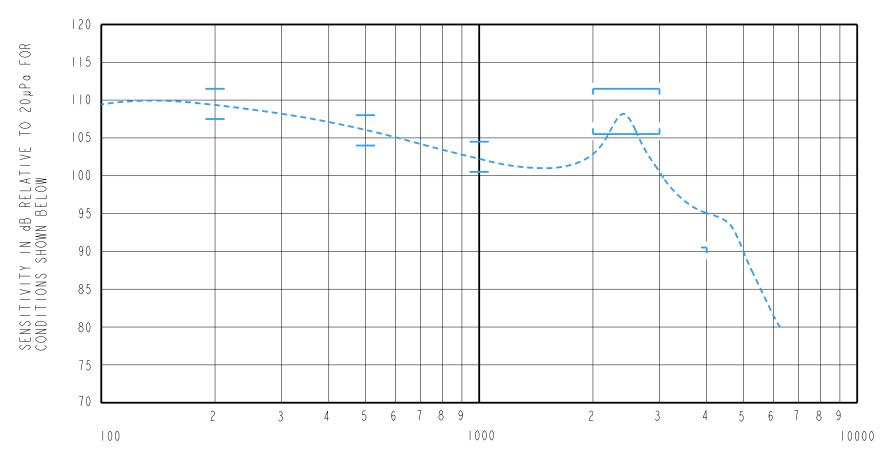


SHEET 2.1

THE FED-23814-106 IS A FERROFLUID DAMPED ED-23814 RECEIVER WITH PEAK OF 4dB RELATIVE TO THE SENSITIVITY AT IKHZ UNDER CONSTANT VOLTAGE DRIVE CONDITIONS.

CONSTANT VOLTAGE DRIVE CONDITIONS



FREQUENCY IN HERTZ

ACOUSTICAL

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	+5.0	+7.0	+9.0
500	+1.5	+3.5	+5.5
1000	-2.0	102.5	+2.0
2000 - 3000	+ 3 . 0	+6.0	+9.0
4000	-12.0		

TABLE I

TOTAL HARMONIC DISTORTION

DEVICE WILL NOT EXCEED TOTAL HARMONIC DISTORTION LEVELS LISTED BELOW.

FREQUENCY (Hz)	AC DRIVE (V rms)	DC BIAS (mA)	LIMIT (%)
500	0.406	0	10
830	0.143	0	5
1250	0.143	0	5

TABLE 2

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.143 V rms, OmA DC BIAS
SOURCE IMPEDANCE	< I Ohm
TUBING	
COUPLER CAVITY	2 CM ³ , SIMULATED ANSI S3.7 TYPE HA-3 (IEC 126)

TABLE 3

ELECTRICAL

DC RESISTANCE	23 OHMS ± 10%
IMPEDANCE @ 500 Hz	50 OHMS ± 15%
IMPEDANCE @ I kHz	85 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)

Revision C.O. # Implementation Date

PERFORMANCE SPECIFICATION

SENSITIVITY AT 0°C IS 2dB LOWER THAN THE SENSITIVITY AT ROOM TEMPERATURE. DELTA PEAK IS IdB HIGHER AT BODY TEMPERATURE (37°C)

STORAGE RANGE FROM -40°C TO 63°C.

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CRITERIA, (CORRELATION (OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR MENT AND TEST METHOD VARIATION		DR. BY	DATE 2 - 04 - 06	
TITLE:	RE	CEIVER		FED-23814-106	CK. BY GJP APP. BY	DATE 2 - 08 - 06 DATE

RELEASE LEVEL

SHT 2.1

REVISION

12-08-06

PORT LOCATION: 12S

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

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FED-23814-I06