

OUTLINE DRAWING

SHT I.I

GJP

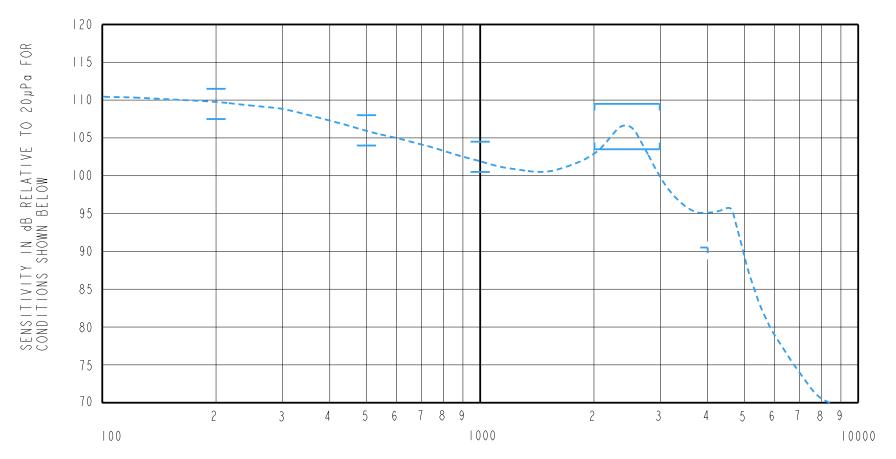
2-8-06

SHEET 2.1

PORT LOCATION: 12C

THE FED-23732-104 IS A FERROFLUID DAMPED ED-23732 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	+   . 0	+4.0	+7.0
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	1.24	0	10
830	0.44	0	5
1250	0.44	0	5

TABLE 2

## TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.44 V rms, OmA DC BIAS
SOURCE IMPEDANCE	< I Ohm
TUBING	
COUPLER CAVITY	2 CM <sup>3</sup> , SIMULATED ANSI S3.7 TYPE HA-3 (IEC 126)

TABLE 3

## **ELECTRICAL**

DC RESISTANCE	196 OHMS ± 10%
IMPEDANCE @ 500 Hz	380 OHMS ± 15%
IMPEDANCE @ I kHz	680 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

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.

B A	C10107990 C10103596	-   7 - 08   - 3   - 06		Active		В
WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR			DR. BY	DATE   - 3   - 06		
LETIMINATION OF EGGITHENT AND TEST METHOD VANTATION		CK. BY	DATE			
TITLE:	RE	CEIVER		FED-23732-104	GJP	2-8-06
	PERFORMAN	NCE SPECIFICAT	ION	SHT 2.1	APP. BY GJP	DATE 2 - 8 - 06

RELEASE LEVEL

REVISION

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.