

PORT LOCATION: 12S

APP. BY

GJP

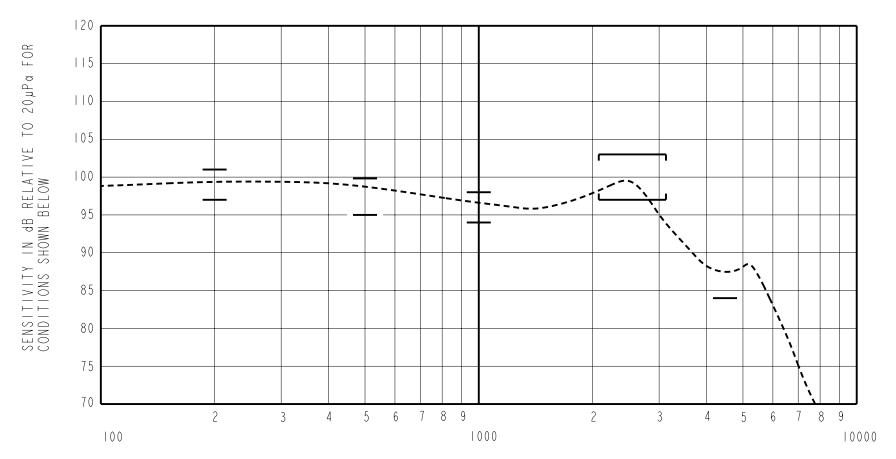
SHT 2.1

DATE

12-8-05

THE FFH-23371-104 IS A FERROFLUID DAMPED FH-23371 RECEIVER WITH A 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	+   . 0	3.0	5.0
500	-1.0	1.0	3.0
1000	-2.0	96.0	2.0
2100 - 3100	+   . 0	4.0	7.0
4500	-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 (V)	LIMIT (%)
500	0.35	0	10
870	0.125	0	6
1300	0.125	0	6

TABLE 2

## TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.125 V rms, 0 mA 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	61 Ohms ± 10%
IMPEDANCE @ 500 Hz	85 Ohms $\pm$ 15%
IMPEDANCE @ IkHz	128 Ohms $\pm$  5%

TABLE 4

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

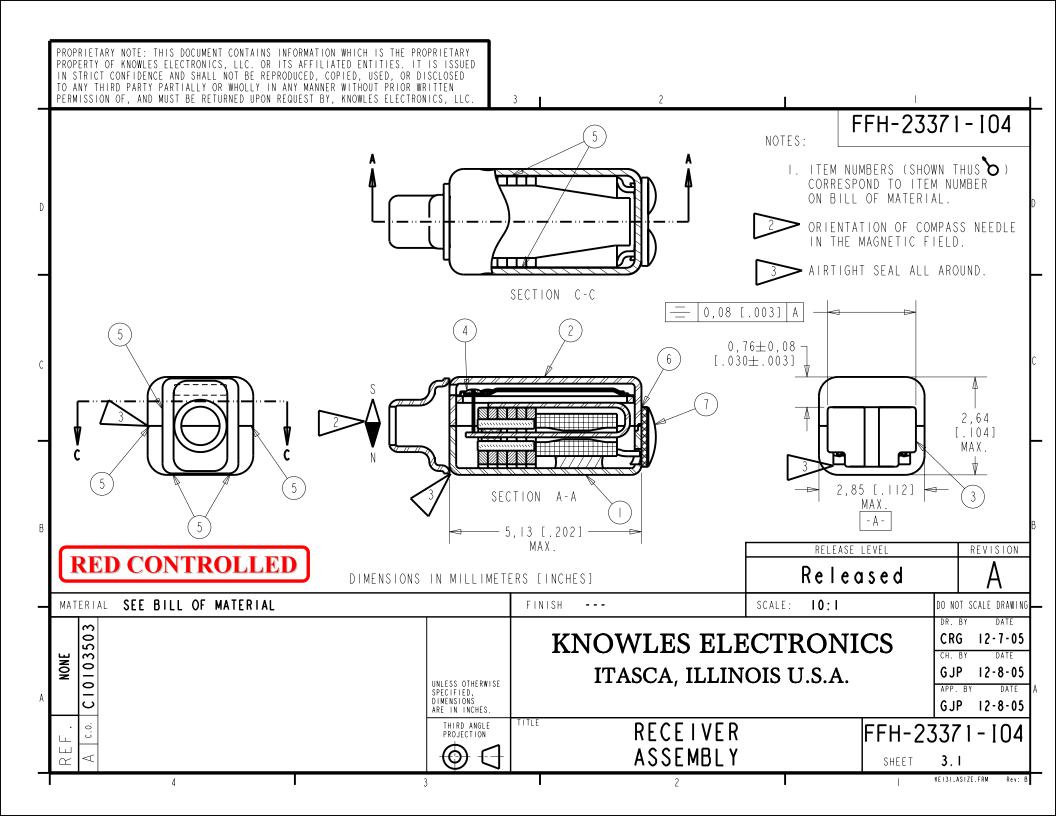
TEMPERATURE: OPERATING RANGE FROM 0°C TO 63°C (SENSITVITY WILL NOT VARY BY MORE THAN  $\pm 3$  dB WITHIN RANGE) SENSITIVITY AT 0°C IS 2dB LOWER THAN THE SENSITIVITY AT ROOM TEMPERATURE.

DELTA PEAK IS 1.5dB HIGHER AT BODY TEMPERATURE (37°C)) STORAGE RANGE FROM -40°C TO 63°C

	Kevision	C.O. #	Implementation Date	KELEASE LEVEL		REVISION
RED CONTROLLED	Δ	C10103482	12-7-05	Released		Α
			12 1 00	l		
				G INSPECTION ACCEPTANCE/REJECTION IOWLES IS ALSO REQUIRED FOR	DR. BY	DATE
			IT AND TEST METHOD VARIAT		CRG	12-7-05
IOWLES ELECTRONICS					CK. BY	DATE
ITASCA, ILLINOIS U.S.A.	TITLE:	RE	CEIVER	FFH-23371-104	GJP	12-8-05
					100 00	2175

PERFORMANCE SPECIFICATION

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.



FFH-23371-104	KNOWLES ELECTRONICS	FFH-23371-104	
Sheet <b>4.1</b>	ITASCA, ILLINOIS U.S.A.	Sheet <b>4.</b> I	
By Date CRG 12-7-05 Ch. GJP 12-8-05 App. GJP 12-8-05	RECEIVER ASSEMBLY	Release Level  Released	
COL. I	2 3	4 . o N .	
Part or Dwg. no.	Tot. Req. Nomenclature:	Applicable Specs & & & & & & & & & & & & & & & & & & &	
FFH-124-400	I MOTOR, CUP & FERROFLUID ASSEMBLY		
FH-115	I CUP & DIAPHRAGM ASSEMBLY	2 2	
FH-020	I TAB	3 3	
13-092	A/R CEMENT	4 4	
13-092	A/R CEMENT	5 5	
13-092	A/R CEMENT	6 6	
285-007-001	A/R SOLDER LEAD FREE	7 7	

REVISION c.o. C10103503

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RED CONTROLLED

FFH-23371-104 Sheet 4.1

FFH-23371-104 SHEET 5.1

PRODUCTION TEST INFORMATION

SOFTWARE REVISION PCI/GPIB FCART	SOFTWARE 4.13 MIN.
HARDWARE REVISION PCI FCART	KE 1065D.004 MIN.
HARDWARE REVISION GPIB FCART	KE 1065C.008G MIN.

RED CONTROLLED

Revision	C.O. #	Implementation Date	RELEASE LEVEL		REVISION
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**KNOWLES ELECTRONICS** ITASCA, ILLINOIS U.S.A.

	EQUIPMENT AND TEST METHOD VARIA		CRG	12-7-05
			CK. BY	DATE
TITLE:	RECEIVER	FFH-23371-104	GJP	12-8-05
	NECLIVEN	1111 2001 1 104	APP. BY	DATE

PERFORMANCE SPECIFICATION