FFH-23375-102 SHT I.I NOTES: $-1,40\pm0,05$ $[.055 \pm .002]$ A POSITIVE GOING VOLTAGE AT TERMINAL 2, RELATIVE TO TERMINAL I, CAUSES A DECREASE IN PRESSURE AT THE SOUND OUTLET. I,60±0,05 [△] LOCATED FROM TWO SURFACES FOR CUSTOMER $[.063\pm.002]$ 5.09 ± 0.04 CONVENIENCE. ONLY APPLICABLE FROM ONE SURFACE, $[.2005\pm.0015]$ NOT TO BE USED TOGETHER. $2,80\pm0,04$ $[.1105\pm.0015]$ $|,4|\pm 0,04$ $[.0555\pm.0015]$ $0,86 \pm 0,05$ OUTER DIAMETER $[.034 \pm .002]$ $R0,508\pm0,025$ $1,40\pm0,05$ $1,29\pm0,05$ $[.020\pm .001]$ $[.055\pm.002]$ [.051±.002] $2,59\pm0,05$ $[.102\pm.002]$ I,19±0,05 [.047±.002] 0,51 [.020] ,29±0,05 · -TERMINAL 2 MAXIMUM $[.051 \pm .002]$ $3,40 \pm .05$ SOLDER BUILDUP (POSITIVE) $[.134 \pm .002]$ -TERMINAL I**≪** (NEGATIVE) SCALE 2:1 C.O. # Implementation Date RELEASE LEVEL REVISION Revision NOMINAL WEIGHT B .18 GRAMS Active C10109708P 10-28-10 В DIMENSIONS IN MILLIMETERS [INCHES] C10103482 12-7-05 Α SCALE: DR. BY 5:1 **KNOWLES ELECTRONICS** CRG 12-7-05 DO NOT SCALE DRAWING CK. BY DATE ITASCA, ILLINOIS U.S.A. TITLE: RECEIVER FFH-23375-102 GJP 12-8-05 APP. BY DATE

OUTLINE DRAWING

SHT I.I

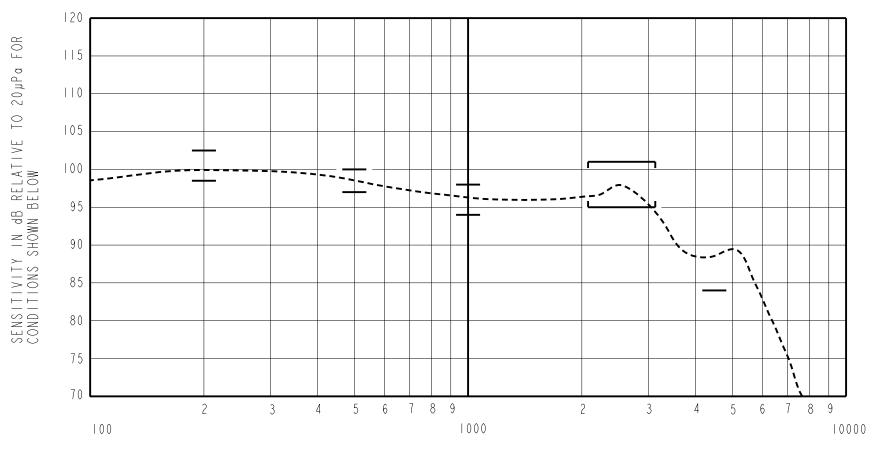
GJP

12-8-05

PORT LOCATION: 12S

THE FFH-23375-102 IS A FERROFLUID DAMPED FH-23375 RECEIVER WITH A PEAK OF 2dB 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	2.5	4.5	6.5
500	1.0	3.0	5.0
1000	-2.0	96.0	2.0
2100 - 3100	-1.0	2.0	5.0
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	0.70	0	10
870	0.25	0	6
1300	0.25	0	6

TABLE 2

TEST CONDITIONS

TEOT CONDITIONS	
NOMINAL SOURCE VOLTAGE	0.25 V rms, 0 mA DC BIAS
SOURCE IMPEDANCE	< Ohm
TUBING	
COUPLER CAVITY	2 CM ³ , SIMULATED ANSI S3.7 TYPE HA-3 (IEC 126)

TABLE 3

ELECTRICAL

DC RESISTANCE	240 Ohms ± 10%
IMPEDANCE @ 500 Hz	353 Ohms ± 15%
IMPEDANCE @ IkHz	553 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
B A	C10109708P C10103482	10-28-10 12-7-05	Active		В
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 12-7-05		
TITLE:	RE	CEIVER	FFH-23375-102	CK. BY GJP APP. BY	DATE 12-8-05 DATE
	PERFORMAN	NCE SPECIFICATION	SHT 2.1	GJP	12-8-05

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.