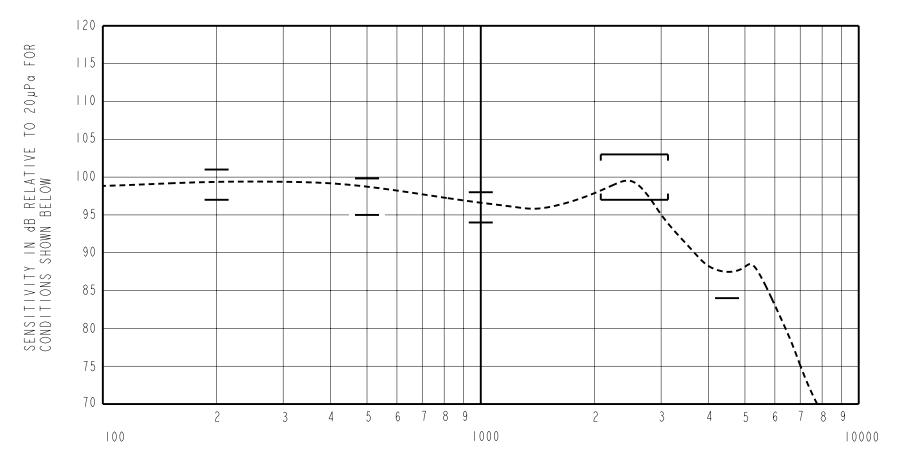


THE FFH-23371-104 IS A FERROFLUID DAMPED FH-23371 RECEIVER WITH A PEAK OF 4dB RELATIVE TO THE SENSITIVITY AT IKHZ UNDER CONSTANT VOLTAGE DRIVE CONDITIONS.

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 | | |

PORT LOCATION: 12S

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 ³ , 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 +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 |
|-------------|---------------|---------------------------|---------------------------------|--------|----------|
| | | 10.7.05 | Released | | Α |
| A | C10103482 | 12-7-05 | | | |
| WHEN TEST I | _IMITS ARE US | SED TO ESTABLISH INCOMING | INSPECTION ACCEPTANCE/REJECTION | DR. BY | DATE |

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

| RECEIVER FFH-23371-104 | GJI |
|---|--------|
| | CV |
| ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION | CR(|
| CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR | |
| WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION | ϽN DR. |

PERFORMANCE SPECIFICATION

| 1 | CRG | 12-7-05 |
|-----------------|---------|---------|
| | CK. BY | DATE |
| FFH-23371-104 | GJP | 12-8-05 |
| 1111 2001 1 104 | APP. BY | DATE |
| SHT 2.1 | GJP | 12-8-05 |