

EL-23078-D44 SHEET 2.1 SENSITIVITY IN AB RELATIVE TO 1.0 VOLT/MICROBAR (0.1 N/m²) UNDER THE TEST CONDITIONS SHOWN BELOW -40dB CONDITION I - 45 - 50 - 55 CONDITION 2 -60 -65 - 70 - 75 - 80 6 8 6 8 100 10000 FREQUENCY IN HERTZ DEVICE CONFORMITY CONDITION | SENSITIVITY RANGE OF DEVIATION FROM I kHz FREQUENCY MIN. NOM. CONDITION I CONDITION 2 1000 -55.0 -53.0 -51.0 0.0 0.0 -20.0 MIN. -43.0 3400-5400 +5.0 NOTES: I. OPEN CIRCUIT SENSITIVITY IN dB RELATIVE TO I.0 VOLT/MICROBAR (0.1 $\mbox{N/n}^2)$ NUDER THE TEST CONDITIONS SHOWN IN A9 BELOW. GRADES FOR IRHZ SENSITIVITY WITH 1.3 V SUPPLY AND NO LOAD: FOR CONDITION I GRADE A : -51.00 TO -53.00 GRADE B : -53.01 TO -55.00 2. DC SUPPLY: 1.3V 3. AMPLIFIER CURRENT DRAIN: 50 µA MAX. 4. OUTPUT IMPEDANCE: 2800 TO 6800 OHMS (4400 OHMS NOMINAL). 5. CASE CONNECTED TO NEGATIVE TERMINAL. 6.SENSITIVITY CHANGE ON REDUCING SUPPLY TO 0.9 VDC: 3 dB MAX. 7. "A" WEIGHTED NOISE (RE I.O VOLT): -100.0 dB MAX SENSITIVITY CHANGE ON REDUCING SUPPLY TO 0.9VDC (RE 1.0 VOLT) PORT DC AMPLIFIER LOCATION SUPPLY CURRENT DRAIN OUTPUT IMPEDANCE OHMS MIN. NOM MAX 12S, 0JP 1.3V 50 μΑ MAX 3 dB MAX -100.0 dB MAX. 2800 4400 6800 TEST CONDITIONS WITH TUBING AND SIGNALS DESCRIBED BELOW DIMENSIONS IN MILLEMETERS [INCHES]. [,93 [.076] |.D. FRONT (PORT I) [.076] I.D. (PORT 2) SIGNAL "A" IS A REFERENCE SIGNAL OF 1.0 MICROBAR. SIGNAL "B" IS A PROBE SIGNAL DELAYED 56.8 MICROSECONDS WITH RESPECT TO SIGNAL "A" AND HAVING 0.981 TIMES THE AMPLITUDE. OUTPUT FOR CONDITION I FOR CONDITION 2 SIGNAL "A" IS APPLIED TO PORT I SIGNAL "B" IS APPLIED TO PORT 2 SIGNAL "A" IS APPLIED TO PORT 2 SIGNAL "B" IS APPLIED TO PORT I Implementation Date RELEASE LEVEL REVISION Released M10101526 8-3-07 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 LSY 8-3-07 KNOWLES ELECTRONICS CK. BY DATE MICROPHONE EL-23078-D44 8-8-07 ITASCA, ILLINOIS U.S.A.

PERFORMANCE SPECIFICATION

APP. BY

SHT 2.1

DATE