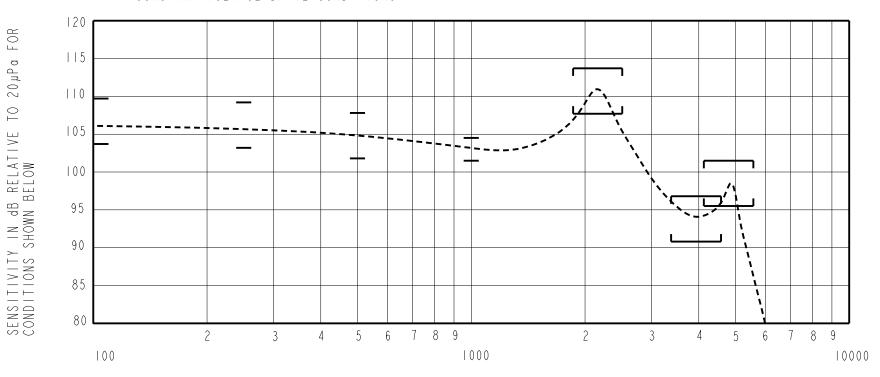


CONSTANT VOLTAGE DRIVE CONDITIONS



FREQUENCY IN HERTZ

ACOUSTICAL

20µPa FOR

SENSITIVITY DEVICE WILL PRODUCE THE SPL LISTED BELOW UNDER TEST CONDITIONS DESCRIBED IN TABLE 4. NOMINAL SENSITIVITY AT IKHZ IS dB RELATIVE TO $20\mu P\alpha$. ALL OTHER VALUES IN dB RELATIVE TO THE SENSITIVITY AT IkHz.

LIMIT TYPE	FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
REL	100	+0.7	+3.7	+6.7
REL	250	+0.2	+3.2	+6.2
REL	500	-1.2	+ .8	+4.8
REF	1000	-1.5	103.0	+1.5
PEAK	1860 - 2510	+ 4 . 7	+7.7	+10.7
VALLEY	3380 - 4580	-12.2	-9.2	-6.2
PEAK	4125 - 5580	-7.5	-4.5	-1.5

TABLE I

TOTAL HARMONIC DISTORTION

DEVICE WILL NOT EXCEED TOTAL HARMONIC DISTORTION LEVELS LISTED BELOW.

FREQUENCY (Hz)	AC DRIVE (Vrms)	DC BIAS (V)	LIMIT (%)
728	0.112	0	3
1082	0.112	0	3
728	0.315	0	8
1082	0.315	0	8

MAXIMUM OUTPUT LEVEL

POWER (mW)	500 Hz SPL	REQUIRED VOLTAGE	Peak SPL	REQUIRED VOLTAGE
	(dB)	(Vrms)	(dB)	(Vrms)
10	118.5	0.728	129.2	1.249

TABLE 3

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.112 Vrms, 0 mA DC BIAS
SOURCE IMPEDANCE	Ohm</td
TUBING	10 mm [.394"] LONG X mm [.039"] .D. (" TE")
COUPLER CAVITY	2 CM ³ , SIMULATED ANSI S3.7 TYPE HA-3 (IEC 60318-5)
MAXIMUM DRIVE VOLTAGE	I.55 Vrms

TABLE 4

ELECTRICAL

DC RESISTANCE @ 20°C	40.9 Ohms ± 10%
IMPEDANCE @ 500 Hz	56.7 Ohms ± 15%
IMPEDANCE @ I kHz	87.7 Ohms ± 15%
INDUCTANCE @ 500 Hz	10.8 mH TYPICAL
CAPACITANCE @ 10 MHz	2.8 pF TYPICAL

TABLE 4

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

MECHANICAL

PORT LOCATION: 12S

SOLDER TYPE: SAC305

TEMPERATURE

OPERATING: SENSITIVITY WILL NOT VARY MORE THAN +1/-3 dB AT 500 Hz FROM -17°C TO 63°C

STORAGE: -40°C TO 63°C

SHOCK RESISTANCE: 90% SURVIVAL RATE WITH THD @ 1/3 PEAK FREQUENCY LESS THAN 10%, THD @ 1/2 PEAK FREQUENCY LESS THAN 20% AND LESS THAN 3dB CHANGE IN SENSITIVITY AT 1kHz WHEN SUBJECTED TO 14,100 G

	Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
	С	C10114797	6 - 10 - 13		\sim
	В	C10113003	11-11-11	Active	()
	А	C10112601	7 - 27 - 11		
1				i i	•

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

			INSPECTION ACCEPTANCE/REJECTION	DR. BY	DATE
CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION				LSY	7 - 27 - 11
				CK. BY	DATE
TITLE:	RECEIV	FR	CR-31570-000	GJP	7 - 29 - 11
	WECE I	LIV	011 0101 0 000	APP. BY	DATE
	PERFORMANCE SPEC	CIFICATION	SHT 2.1	GJP	7-29-11