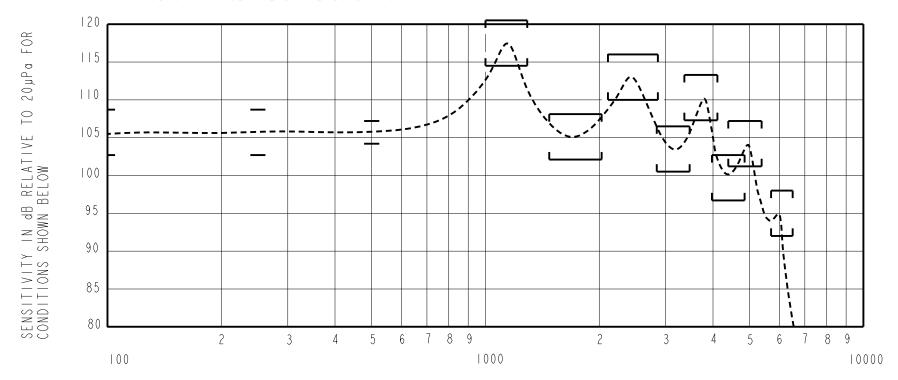


Rev: B

GR-31459-000 SHEET 2.1





FREQUENCY IN HERTZ

ACOUSTICAL

ENSITIVITY

DEVICE WILL PRODUCE THE SPL LISTED BELOW UNDER TEST CONDITIONS
DESCRIBED IN TABLE 4. NOMINAL SENSITIVITY AT 500Hz IS dB RELATIVE
TO 20μPα. ALL OTHER VALUES IN dB RELATIVE TO THE SENSITIVITY AT 500Hz.

LIMIT TYPE	FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
REL	100	- 3 . 0	-0.5	+ 3 . 0
REL	250	- 3 . 0	-0.3	+ 3 . 0
REF	500	-1.5	105.7	+1.5
PEAK	1000 - 1290	+8.8	+ .8	+ 4.8
VALLEY	1475 - 2030	- 3 . 6	-0.6	+2.4
PEAK	2110 - 2860	+4.3	+7.3	+ 0 . 3
VALLEY	2840 - 3470	-5.2	-2.2	+0.8
PEAK	3360 - 4110	+1.6	+4.6	+7.6
VALLEY	3975 - 4850	-9.0	-6.0	- 3 . 0
PEAK	4390 - 5380	-4.5	-1.5	+1.5
PEAK	5700 - 6500	-13.7	-10.7	-7.7

TABLE I

TOTAL HARMONIC DISTORTION

DEVICE WILL NOT EXCEED TOTAL HARMONIC DISTORTION LEVELS LISTED BELOW.

FREQUENCY (Hz)	AC DRIVE (Vrms)	DC BIAS (V)	LIMIT (%)
391	0.112	0	3
586	0.112	0	3
391	0.224	0	8
586	0.315	0	10

TABLE 2

MAXIMUM OUTPUT LEVEL

POWER (mW)	500 Hz SPL (dB)	REQUIRED VOLTAGE (Vrms)	Peak SPL (dB)	REQUIRED VOLTAGE (Vrms)		
10	120.1	0.703	135.9	0.925		

TABLE 3

ELECTRICAL

DC RESISTANCE @ 20°C	40.9 Ohms ± 10%
IMPEDANCE @ 500 Hz	57.2 Ohms ± 15%
INDUCTANCE @ 500 Hz	10.8 mH TYPICAL
CAPACITANCE @ 10 MHz	2.9 pF TYPICAL

TABLE 5

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 IKHZ WHEN SUBJECTED TO 14,100 G

TEST CONDITIONS

ILSI CONDITIONS	
NOMINAL SOURCE VOLTAGE	0.112 Vrms, 0 mA DC BIAS
SOURCE IMPEDANCE	Ohm</td
TUBING	8 mm X I mm ID + 28 mm X I.5mm ID EAR HOOK SIMULATOR + 25 mm X 2 mm ID TUBE + 18 mm X 3 mm ID TUBE
COUPLER CAVITY	2 CM ³ , SIMULATED ANSI S3.7 TYPE HA-3 (IEC 60318-5)
MAXIMUM DRIVE VOLTAGE	1.55 Vrms

TABLE 4

1/6 / 1 2 1 0 11	C.O. #	Tilip Tellie II Tu Tu Tu Tu Tu Tu	MULLAGE ELVEL		IL VISION
					ח
В	C10114522	3-19-13	l Active		l K l
Α	C10112601	7 - 27 - 11			ט
WHEN TEST I	IMITS ADE IIS	SED TO ESTABLISH INCOMING	INSPECTION ACCEPTANCE/PETECTION	DR BY	DATE

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

/ 1	010112001	1 2 1 1				
				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:	RF	CFIVER		CR-31459-000	GJP	7 - 29 - 11
	11 -	CLIVEN		011 01 400 000	APP. BY	DATE
	PERFORMAN	NCE SPECIFIC <i>A</i>	MOITA	SHT 2.1	GJP	7-29-11