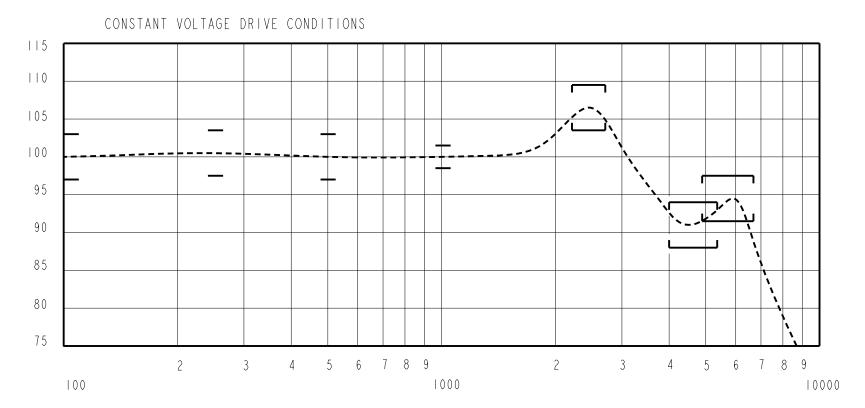


INTENDED FOR USE IN CIC, RIC, AND MINI-BTE APPLICATIONS. THIS IS A PAIR OF GE RECEIVERS WITH VERY LOW VIBRATION IN ALL DIRECTIONS. ONE GE RECEIVER IS REVERSE MAGNETIZED FOR MAGNETIC LEAKAGE CONSIDERATIONS. BOTH DAUGHTER UNITS HAVE THE CENTER TERMINAL CONNECTED TO CASE.





FREQUENCY IN HERTZ

# **ACOUSTICAL**

SENSITIVITY

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

LIMIT TYPE	FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
REL	100	-3.0	0.0	+3.0
REL	250	-2.5	+0.5	+3.5
REL	500	-3.0	0.0	+3.0
REF	1000	-1.5	100.0	+1.5
PEAK	2250 - 2750	+3.5	+6.5	+9.5
VALLEY	4000 - 5400	-12.0	-9.0	-6.0
PEAK	4900 - 6700	-8.5	-5.5	-2.5

TABLE I

TOTAL HARMONIC DISTORTION

DEVICE WILL NOT EXCEED TOTAL HARMONIC DISTORTION LEVELS LISTED BELOW.

FREQUENCY (Hz)	AC DRIVE (Vrms)	DC BIAS (V)	LIMIT (%)
833	0.204	0	3
1250	0.204	0	3
833	0.576	0	8
1250	0.576	0	8

TABLE 2

# MAXIMUM OUTPUT LEVEL (TYPICAL)

POWER (mW)	500 Hz SPL (dB)	REQUIRED VOLTAGE (Vrms)	Peak SPL (dB)	REQUIRED VOLTAGE (Vrms)
10	114.0	1,1	124.0	1.6
50	117.0	2.3	128.0	3.1

TABLE 3

### **TEST CONDITIONS**

NOMINAL SOURCE VOLTAGE	0.204 Vrms, 0 mA DC BIAS
SOURCE IMPEDANCE	< I Ohm
TUBING	
COUPLER CAVITY	2 CM <sup>3</sup> , SIMULATED ANSI S3.7 TYPE HA-3 (IEC 60318-5)

TABLE 4

	Revision C.O. #	Implementation Date	RELEASE LEVEL		REVISION
	C C1011328	3-30-12			$\sim$
	B C1011258	6-28-11	l Active		( .
	A C10112068	P 3-24-11			
	WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION			DR. BY	DATE
KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.	CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION			KL	3 - 2 4 - 1 1
				CK. BY	DATE
	TITLE: R	ECEIVER	GD-31223-000	GJP	3-29-11
11710071, 1111111010 0.0.71.	'	COLIVEN	00 01220 000	APP. BY	DATE
	PERFORM	ANCE SPECIFICATION	SHT 2.1	GJP	4 -   -

#### **ELECTRICAL**

DC RESISTANCE @ 20°C	105.0 Ohms ± 10%
IMPEDANCE @ 500 Hz	121.0 Ohms ± 15%
IMPEDANCE @ I kHz	144.4 Ohms ±   15%
INDUCTANCE @ 500 Hz	10.6 mH TYPICAL
CAPACITANCE @ 10 MHz	4.6 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 IKHZ WHEN SUBJECTED TO 15,000 G.