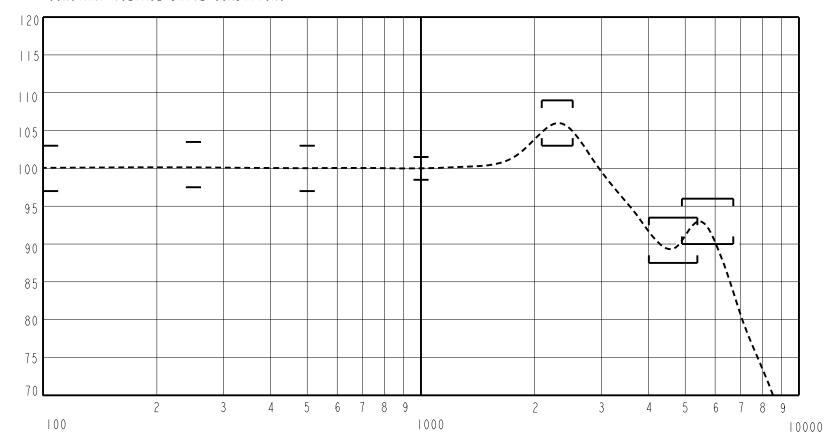


CD30-31719-000 SHEET 2.1

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 GE30 RECEIVER IS REVERSE MAGNETIZED FOR MAGNETIC LEAKAGE CONSIDERATIONS. THE GD30 HAS ANNEALED MUMETAL CUPS TO REDUCE MAGNETIC LEAKAGE.





FREQUENCY IN HERTZ

ACOUSTICAL

SENSITIVITY

SENSITIVITY IN dB RELATIVE TO 20µPa FOR CONDITIONS SHOWN BELOW

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	2070 - 2530	+ 3 . 0	+6.0	+9.0
VALLEY	4000 - 5400	-13.5	-10.5	-7.5
PEAK	4900 - 6700	-10.0	- 7 . 0	-4.0

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	0.289	0	3
1250	0.289	0	3
833	0.813	0	8
1250	0.813	0	8

MAXIMUM OUTPUT LEVEL (TYPICAL)

POWER (mW)	500 Hz SPL (dB)	REQUIRED VOLTAGE (Vrms)	Peak SPL (dB)	REQUIRED VOLTAGE (Vrms)
10	114.1	1.5	123.8	2.2

TABLE 3

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.289 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	2.68 Vrms

TABLE 4

ELECTRICAL

DC RESISTANCE @ 20°C	201 Ohms ± 10%
IMPEDANCE @ 500 Hz	228 Ohms ± 15%
IMPEDANCE @ kHz	279 Ohms ± 15%
INDUCTANCE @ 500 Hz	22.2 mH TYPICAL
CAPACITANCE @ 10 MHz	4.6 pF TYPICAL

TABLE 5

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

MECHANICAL

PORT LOCATION: 12N

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.

Revision	C.O. #	Implementation Date	RELEASE LEVEL		REVISION
A	C10113826	7-6-12	Active		Α
	LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR			DR. BY	DATE
ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION			LSY	7 - 6 - 12	
				CK. BY	DATE
TITLE:	RE	CEIVER	CD30-31719-000	GJP	7-13-12
	PERFORMAN	NCF SPECIFICATION	SHT 2.1	APP. BY	DATE 7 - 1 3 - 1 2

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.