

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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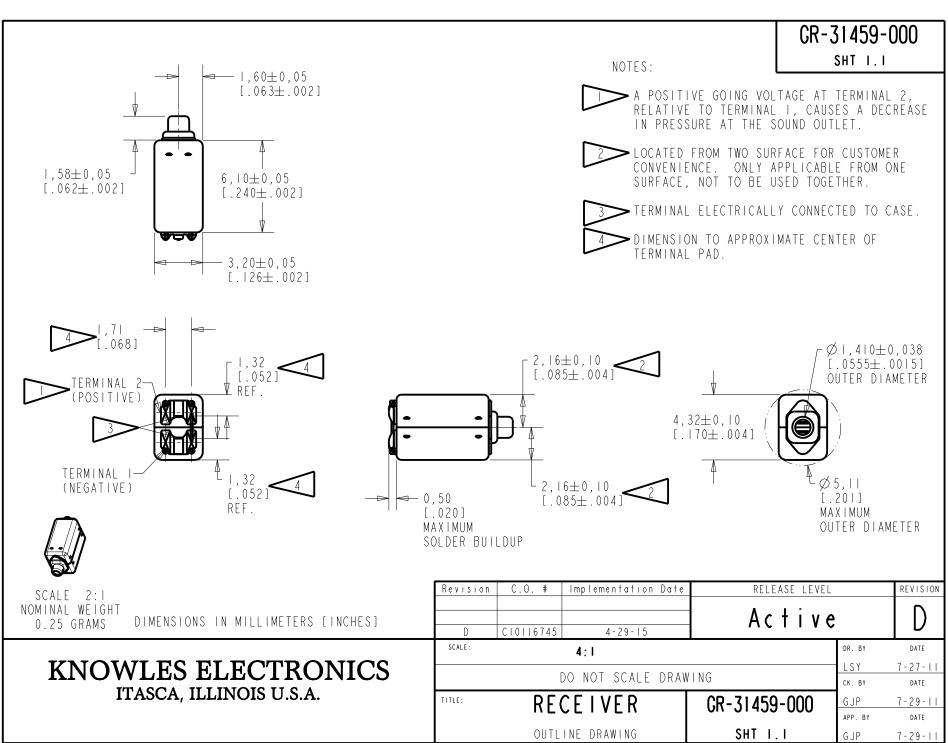
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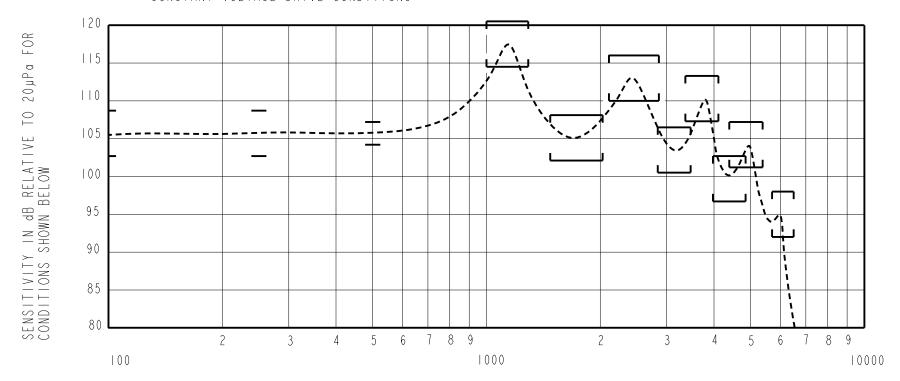






GR-31459-000 SHEET 2.1

CONSTANT VOLTAGE DRIVE CONDITIONS



FREQUENCY IN HERTZ

ACOUSTICAL

SENSITIVITY

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.

391 0.112 0 3 586 0.112 0 3 391 0.224 0 8 586 0.315 0 10	FREQUENCY (Hz)	AC DRIVE (Vrms)	DC BIAS (V)	LIMIT (%)
391 0.224 0 8	391	0.112	0	3
	586	0.112	0	3
586 0.315	391	0.224	0	8
0.313	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

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NOMINAL SOURCE VOLTAGE	0.112 Vrms, 0 mA DC BIAS
SOURCE IMPEDANCE	< I Ohm
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

V6 A 1 2 1 0 II	C.O. #	imprementation bare	VELENSE LEVEL		ME VISION
			Active		D
D	C10116745	4-29-15			
			INSPECTION ACCEPTANCE/REJECTION	DR. BY	DATE
		DF TEST EQUIPMENT WITH KN NT AND TEST METHOD VARIAT	OWLES IS ALSO REQUIRED FOR ION	LSY	7 - 27 - 11

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

	HEN 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				7 - 27 - 11
			CK. BY	DATE
TITLE:	RECEIVER	CR-31459-000	GJP	7 - 29 - 11
	RECEIVER	011 01 100 000	APP. BY	DATE
	PERFORMANCE SPECIFICATION	SHT 2.1	G.JP	7 - 29 - 11