

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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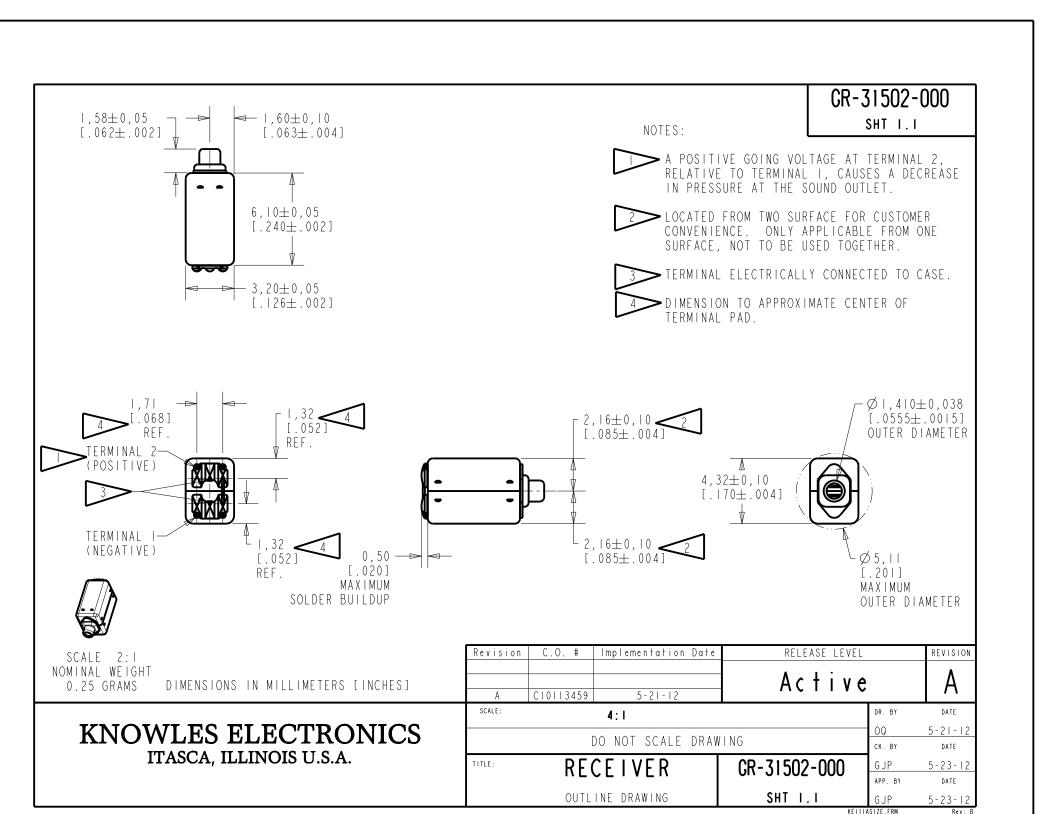
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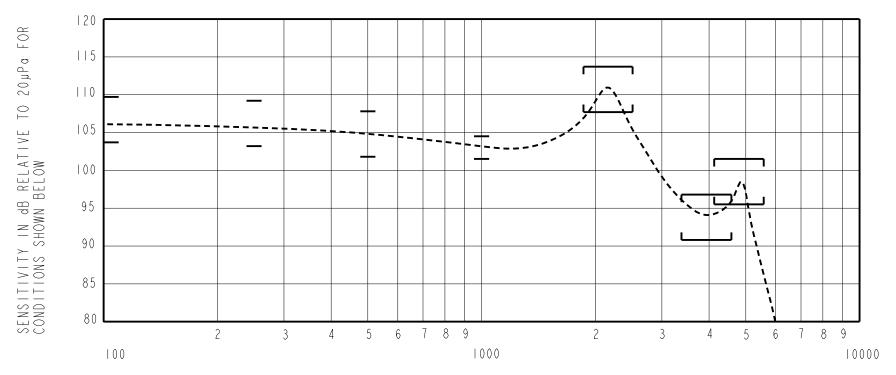








CONSTANT VOLTAGE DRIVE CONDITIONS



FREQUENCY IN HERTZ

ACOUSTICAL

SENSITIVITY

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

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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	+1.8	+4.8
REF	1000	-1.5	103.0	+1.5
PEAK I	1860 - 2510	+4.7	+7.7	+10.7
VALLEY I	3380 - 4580	-12.2	- 9 . 2	-6.2
PEAK 2	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 (%)
1/3 PEAKI (TYP. 728)	0.158	0	3
1/2 PEAKI (TYP. 1082)	0.158	0	3
1/3 PEAKI (TYP. 728)	0.446	0	8
1/2 PEAKI (TYP. 1082)	0.446	0	8

TABLE 2

MAXIMUM OUTPUT LEVEL

POWER (mW)	500 Hz SPL (dB)	REQUIRED VOLTAGE (Vrms)	Peak SPL (dB)	REQUIRED VOLTAGE (Vrms)
10	118.1	0.98	128.4	1.83

TABLE 3

ELECTRICAL

DC RESISTANCE @ 20°C	76.0 Ohms ± 10%
IMPEDANCE @ 500 Hz	109 Ohms ± 15%
IMPEDANCE @ I kHz	170 Ohms ± 15%
INDUCTANCE @ 500 Hz	21.4 mH TYPICAL
CAPACITANCE @ 10 MHz	2.8 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 1kHz WHEN SUBJECTED TO 14,100 G

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.158 Vrms, 0 mA DC BIAS
SOURCE IMPEDANCE	< Ohm
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	2.19 Vrms

TABLE 4

Revision	vision C.O. # Implementation Date RELEASE LEVEL			REVISION	
A	C10113459	5-21-12	Active		A
WHEN 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				DR. BY	DATE 5 - 2 - 2
TITLE:	RE	CEIVER	CR-31502-000	GJP APP. BY	5-23-12 DATE
	PERFORMAN	NCE SPECIFICATION	SHT 2.1	GJP	5-23-12

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.