

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

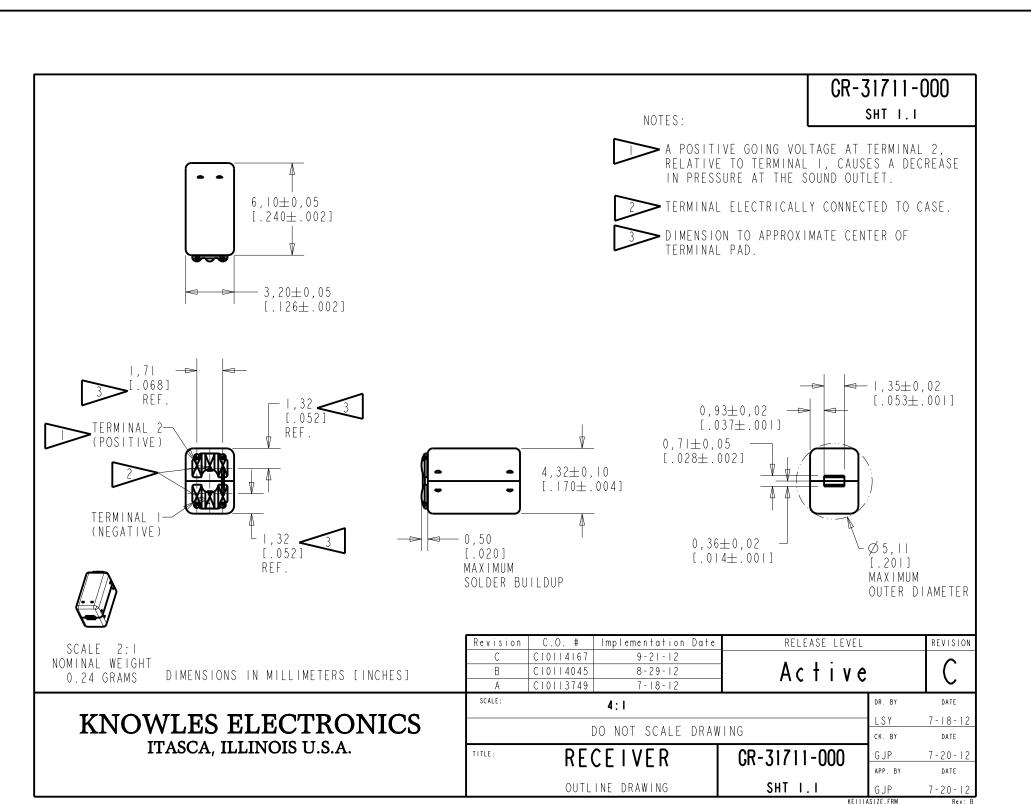
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

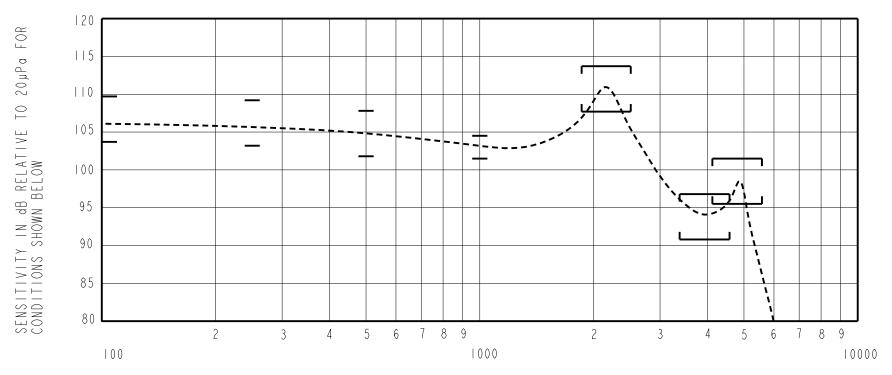








CONSTANT VOLTAGE DRIVE CONDITIONS



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.

,				
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	+ . 5
PEAKI	1860 - 2510	+4.7	+7.7	+ 0 . 7
VALLEYI	3380 - 4580	-12.2	-9.2	-6.2
PEAK2	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. 705)	0.094	0	3
1/2 PEAKI (TYP. 1058)	0.094	0	3
1/3 PEAKI (TYP. 705)	0.265	0	8
1/2 PEAKI (TYP. 1058)	0.265	0	8

TABLE 2

MAXIMUM OUTPUT LEVEL

FREQUENCY	THD(%)	AC DRIVE (Vrms)	SPL MINIMUM (dB)
500Hz	5	1.305	114.0
PEAK	6	1.305	130.3

TABLE 3

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.094 Vrms, 0 mA DC BIAS
MAXIMUM DRIVE VOLTAGE	1.305 Vrms
SOURCE IMPEDANCE	< I Ohm
TUBING	10 mm [.394"] LONG X mm [.039"]
COUPLER CAVITY	2 CM ³ , SIMULATED ANSI S3.7 TYPE HA-3 (IEC 60318-5)

TABLE 4

DC RESISTANCE @ 20°C	29.0 Ohms ± 10%
IMPEDANCE @ 500 Hz	39.5 Ohms ± 15%
IMPEDANCE @ I kHz	63.0 Ohms ± 15%
INDUCTANCE @ 500 Hz	7.1 mH TYPICAL
CAPACITANCE @ 10 MHz	2.8 pF TYPICAL

TABLE 5

ELECTRICAL

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 1kHz WHEN SUBJECTED TO 14,100 G

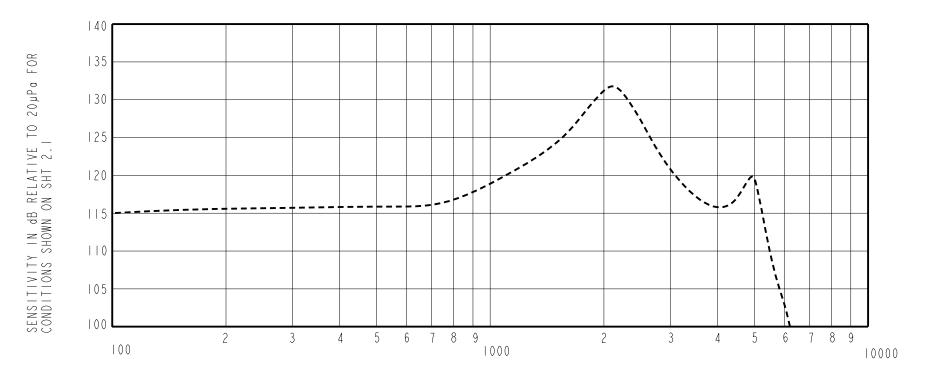
Revision	C.O. #	Implementation Date	RELEASE LEVEL		REVISION	
С	C10114167	9 - 2 - 2			\sim	
В	C10114045	8-29-12	Active		('	
А	C10113749	7 - 18 - 12				
			INSPECTION ACCEPTANCE/REJECTION	DR. BY	DATE	
		OF TEST EQUIPMENT WITH KN NT AND TEST METHOD VARIAT	OWLES IS ALSO REQUIRED FOR ION	LSY	7-18-12	

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

CF	WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR FILMINATION OF FOULPMENT AND TEST METHOD VARIATION			DATE 7 - 18 - 12
	THE THE TOTAL OF EACH PARTY AND TEST METHOD VANIANTS	JII	CK. BY	DATE
TI	RECEIVER	CR-31711-000	GJP	7 - 20 - 12
	NEOE I VEN	0 0	APP. BY	DATE
	PERFORMANCE SPECIFICATION	SHT 2.1	GJP	7 - 20 - 12

CR-31711-000 SHEET 2.2

TYPICAL OUTPUT - 5% THD AND 1.305 V LIMITED



FREQUENCY IN HERTZ

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
С	C10114167	9-21-12		
В	C10114045	8-29-12	l Active	(
А	C10113749	7-18-12	7,411,4	

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

ST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION $lacksquare$
A, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR
FION OF EQUIPMENT AND TEST METHOD VARIATION

			CN. DI	DATE
Т	RECEIVER	CR-31711-000	GJP	7 - 20 - 12
	WEOE I VEN	J. 311 11 333	APP. BY	DATE
	PERFORMANCE SPECIFICATION	SHT 2.2	GJP	7 - 20 - 12