



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

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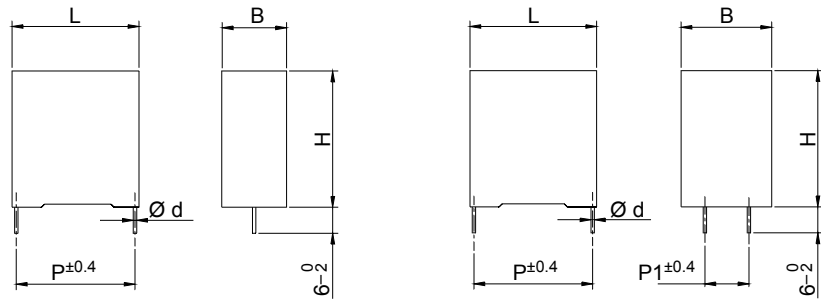
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**General characteristics**

- Self-Healing
- Low losses
- High ripple current
- High contact reliability
- Suitable for high frequency applications



Wire Diameter	0.8 mm 20 AWG	1.2 mm 16 AWG
13 <sup>th</sup> digit code	1	3

**TECHNICAL DATA**

General technical data	VDE 0560 - IEC61071 - EN61071
Application class (DIN 40040)	GPD / LS
Temperature range (Case)	-40 to + 85 °C
Max permissible ambient temperature	+70 °C
Capacitance tolerance code (15 <sup>th</sup> digit )	J = ± 5 % ; K = ± 10%
Peak non-repetitive max current	$I_{PKR} \times 1.5$
Test voltage terminal to terminal $U_{TT}$	2 $U_n$ for 10 seconds
Test voltage terminal to case $U_{TC}$	3kV - 50Hz for 60 seconds
Dissipation factor (tgδ)	$\leq 5 \times 10^{-4}$ at 1 kHz and 20 °C
Permissible relative humidity	Annual average $\leq 95\%$ on 30 days / year, continuously 100% on other days occasionally 100%. Dewing not admissible
IEC climatic category	40 / 85 / 56 according to IEC 68-1
Capacitance deviation in the operating temperature range of -40 to +85 °C	$\pm 1.5\%$ max on capacitance value measured at +20 °C
Change of capacitance versus operating time	-3% after 30.000 hours at $U_{RMS}$ or after 100.000 hours at $U_n$
Case components	Solvent resistant plastic case with epoxy resin sealing. Flame retardant execution (UL class 94 V0).
Terminals	Tinned copper 2 or 4 wires (See figure on top)
Installation	Whatever Position
Life Expectancy	$\geq 30.000$ hours at $U_{RMS}$ ; $\geq 100.000$ hours at $U_n$
Failure quota	300 / 10 <sup>9</sup> components hour

**PEAK VOLTAGE TABLE**

Un	850 V	1000 V	1200 V	2000 V	3000 V
U <sub>MAX</sub>	1200 V	1300 V	1600 V	2400 V	3500 V

**GENERAL CHARACTERISTICS**

Code	C μF	Un Vdc	U <sub>RMS</sub> Vac	dv/dt V/μs	I <sub>PKR</sub> A	ESR (mΩ) max @ 100kHz			I <sub>RMS</sub> (A) 100kHz @70°C			DIMENSIONS mm				
						d=0.8	d=1.2	d=1.2	d=0.8	d=1.2	d=1.2	B	H	L	p	p1
						2 wires	2 wires	4 wires	2 wires	2 wires	4 wires					
C4ASMB_3150_A_	0.15	850	500	1232	185	14.3	13.6	-	8	8	-	10	20	32	27.5	-
C4ASMB_3220_B_	0.22	850	500	1232	271	10.2	9.5	-	9	10	-	13	22	32	27.5	-
C4ASMB_3330_C_	0.33	850	500	1232	407	7.6	6.9	6.0	9	13	14	14	28	32	27.5	5.1
C4ASMB_3470_E_	0.47	850	500	1232	579	6.2	5.3	4.3	9	14	19	18	33	32	27.5	5.1
C4ASMB_3680_G_	0.68	850	500	1232	838	5.2	4.2	3.1	9	14	25	22	37	32	27.5	10.2
C4ASMB_4100_F_	1	850	500	758	758	6.2	5.2	4.1	9	14	22	20	40	41.5	37.5	10.2
C4ASMB_4200_H_	2	850	500	758	1516	4.6	3.5	2.3	9	14	29	24	44	41.5	37.5	10.2
C4ASMB_4300_M_	3	850	500	469	1407	5.6	4.5	3.2	9	14	29	30	45	57.5	52.5	10.2
C4ASMB_4400_M_	4	850	500	469	1876	4.9	3.8	2.5	9	14	29	30	45	57.5	52.5	20.3
C4ASMB_4500_N_	5	850	500	469	2345	4.7	3.5	2.1	9	14	29	35	50	57.5	52.5	20.3
C4ASNB_3150_A_	0.15	1000	600	1344	202	13.3	12.7	-	8	8	-	10	20	32	27.5	-
C4ASNB_3220_B_	0.22	1000	600	1344	296	9.7	9.0	8.3	9	11	11	13	22	32	27.5	5.1
C4ASNB_3330_C_	0.33	1000	600	1344	444	7.3	6.5	5.6	9	14	15	14	28	32	27.5	5.1
C4ASNB_3470_E_	0.47	1000	600	1344	632	6.0	5.1	4.1	9	14	20	18	33	32	27.5	5.1
C4ASNB_3680_G_	0.68	1000	600	1344	914	5.0	4.0	3.0	9	14	25	22	37	32	27.5	10.2
C4ASNB_4100_F_	1	1000	600	827	827	5.9	5.0	3.9	9	14	22	20	40	41.5	37.5	10.2
C4ASNB_4150_J_	1.5	1000	600	827	1241	4.7	3.8	2.7	9	14	29	28	37	42.5	37.5	10.2
C4ASNB_4200_L_	2	1000	600	827	1654	4.5	3.4	2.2	9	14	29	30	45	42	37.5	20.3
C4ASNB_4220_L_	2.2	1000	600	827	1819	4.4	3.3	2.0	9	14	29	30	45	42	37.5	20.3
C4ASNB_4300_M_	3	1000	600	512	1536	5.4	4.3	3.0	9	14	29	30	45	57.5	52.5	20.3
C4ASNB_4400_N_	4	1000	600	512	2048	5.0	3.8	2.4	9	14	29	35	50	57.5	52.5	20.3
C4ASNB_4470_N_	4.7	1000	600	512	2406	4.7	3.5	2.1	9	14	29	35	50	57.5	52.5	20.3
C4ASPB_3100_A_	0.1	1200	630	1568	157	17.4	16.8	-	7	7	-	10	20	32	27.5	-
C4ASPB_3150_B_	0.15	1200	630	1568	235	12.2	11.6	-	9	10	-	13	22	32	27.5	-
C4ASPB_3220_C_	0.22	1200	630	1568	345	9.2	8.4	7.5	9	12	13	14	28	32	27.5	5.1
C4ASPB_3330_E_	0.33	1200	630	1568	517	7.0	6.1	5.1	9	14	18	18	33	32	27.5	5.1
C4ASPB_3470_G_	0.47	1200	630	1568	737	5.8	4.8	3.7	9	14	23	22	37	32	27.5	10.2
C4ASPB_3680_F_	0.68	1200	630	965	656	7.0	6.0	4.9	9	14	20	20	40	41.5	37.5	10.2
C4ASPB_4100_F_	1	1200	630	965	965	5.6	4.6	3.5	9	14	26	20	40	41.5	37.5	10.2
C4ASPB_4120_J_	1.2	1200	630	965	1158	5.0	4.0	2.9	9	14	28	28	37	42.5	37.5	10.2
C4ASPB_4200_M_	2	1200	630	598	1196	6.2	5.0	3.8	9	14	28	30	45	57.5	52.5	10.2
C4ASPB_4220_M_	2.2	1200	630	598	1316	5.9	4.7	3.5	9	14	29	30	45	57.5	52.5	10.2
C4ASPB_4250_M_	2.5	1200	630	598	1495	5.5	4.4	3.1	9	14	29	30	45	57.5	52.5	20.3
C4ASPB_4300_N_	3	1200	630	598	1794	5.3	4.1	2.7	9	14	29	35	50	57.5	52.5	20.3
C4ASPB_4350_N_	3.5	1200	630	598	2093	5.0	3.7	2.4	9	14	29	35	50	57.5	52.5	20.3
C4ASWB_2330_A_	0.033	2000	700	2240	74	40.0	39.3	-	5	5	-	10	20	32	27.5	-
C4ASWB_2470_A_	0.047	2000	700	2240	105	28.5	27.9	-	6	6	-	10	20	32	27.5	-
C4ASWB_2680_B_	0.068	2000	700	2240	152	20.3	19.6	-	8	8	-	13	22	32	27.5	-
C4ASWB_3100_C_	0.1	2000	700	2240	224	14.6	13.8	13.0	9	10	11	14	28	32	27.5	5.1
C4ASWB_3150_E_	0.15	2000	700	2240	336	10.7	9.8	8.8	9	14	15	18	33	32	27.5	5.1
C4ASWB_3220_E_	0.22	2000	700	2240	493	8.0	7.1	6.1	9	14	17	18	33	32	27.5	10.2
C4ASWB_3330_F_	0.33	2000	700	1380	455	9.4	8.5	7.4	9	14	16	20	40	41.5	37.5	10.2
C4ASWB_3680_H_	0.68	2000	700	1380	937	6.1	5.0	3.8	9	14	25	24	44	41.5	37.5	10.2
C4ASWB_4100_M_	1	2000	700	850	850	7.7	6.6	5.3	9	14	24	30	45	57.5	52.5	10.2
C4ASWB_4150_N_	1.5	2000	700	850	1280	6.3	5.1	3.7	9	14	29	35	50	57.5	52.5	20.3
C4ASYB_2220_A_	0.022	3000	750	3360	74	47.9	47.3	-	5	5	-	10	20	32	27.5	-
C4ASYB_2330_B_	0.033	3000	750	3360	111	32.6	31.9	-	7	7	-	13	22	32	27.5	-
C4ASYB_2470_C_	0.047	3000	750	3360	158	23.7	22.9	22.0	9	9	9	14	28	32	27.5	5.1
C4ASYB_2680_C_	0.068	3000	750	3360	228	17.0	16.2	15.3	9	10	11	14	28	32	27.5	5.1
C4ASYB_3100_E_	0.1	3000	750	3360	336	12.4	11.5	10.5	9	13	15	18	33	32	27.5	10.2
C4ASYB_3150_G_	0.15	3000	750	3360	504	9.2	8.2	7.2	9	14	19	22	37	32	27.5	10.2
C4ASYB_3220_F_	0.22	3000	750	2070	455	10.5	9.4	8.2	9	14	18	20	40	41.5	37.5	10.2
C4ASYB_3330_H_	0.33	3000	750	2070	682	7.9	6.8	5.6	9	14	21	24	44	41.5	37.5	10.2
C4ASYB_3470_M_	0.47	3000	750	1280	601	10.1	9.0	7.7	9	14	20	30	45	57.5	52.5	10.2
C4ASYB_3820_N_	0.82	3000	750	1280	1050	7.2	6.0	4.6	9	14	27	35	50	57.5	52.5	20.3

