



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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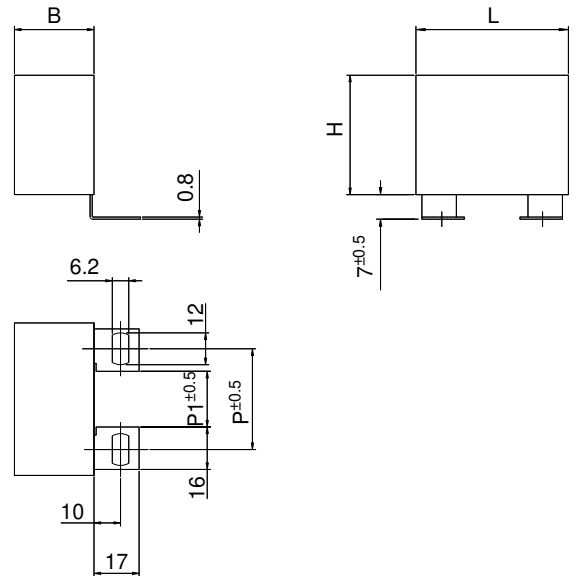
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**General characteristics**

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



**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 (tg )	$\neq 5 \times 10^{-4}$ at 1 kHz and 20 °C
Permissible relative humidity	Annual average $\neq 95\%$ 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	±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 brass lugs
Installation	Whatever Position
Life Expectancy	$\neq$ 30.000 hours at $U_{RMS}$ ; $\neq$ 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
Û <sub>MAX</sub>	1200 V	1300 V	1600 V	2400 V	3500 V

## GENERAL CHARACTERISTICS

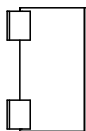
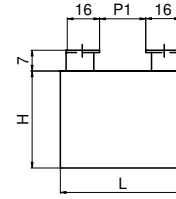
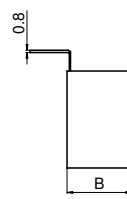
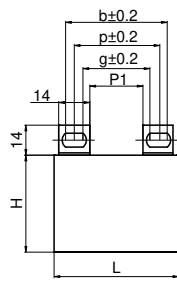
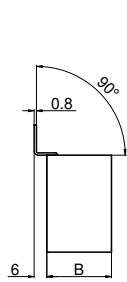
Code	C µF	Un Vdc	U <sub>RMS</sub> Vac	dV/dt V/µs	I <sub>PKR</sub> A	ESR		I <sub>RMS</sub> 100 kHz @ 70°C A	DIMENSIONS mm		
						max @ 100 kHz m'n	ESL nH		B	H	L
C4BSMBX3470ZEE	0.47	850	550	1232	579	4.2	36	20	18	33	32
C4BSMBX3470Z_F	0.47	850	550	758	356	8.2	41	16	20	40	41.5
C4BSMBX3680Z_F	0.68	850	550	758	516	5.7	41	19	20	40	41.5
C4BSMBX4100Z_F	1	850	550	758	758	4.0	41	22	20	40	41.5
C4BSMBX4150Z_J	1.5	850	550	758	1138	2.7	36	29	28	37	42.5
C4BSMBX4200Z_L	2	850	550	758	1517	2.1	43	36	30	45	42
C4BSMBX4220Z_L	2.2	850	550	758	1668	1.9	43	37	30	45	42
C4BSMBX4250Z_M	2.5	850	550	469	1174	1.7	45	39	30	45	57.5
C4BSMBX4300Z_M	3	850	550	469	1408	3.0	45	32	30	45	57.5
C4BSMBX4330Z_M	3.3	850	550	469	1549	2.8	45	33	30	45	57.5
C4BSMBX4400Z_N	4	850	550	469	1878	2.3	48	36	35	50	57.5
C4BSMBX4500Z_N	5	850	550	469	2347	1.9	48	42	35	50	57.5
C4BSNBX3470ZEE	0.47	1000	600	1344	632	3.9	36	20	18	33	32
C4BSNBX3470Z_F	0.47	1000	600	827	389	7.6	41	16	20	40	41.5
C4BSNBX3680Z_F	0.68	1000	600	827	563	5.3	41	20	20	40	41.5
C4BSNBX4100Z_F	1	1000	600	827	827	3.7	41	23	20	40	41.5
C4BSNBX4150Z_J	1.5	1000	600	827	1241	2.5	36	30	28	37	42.5
C4BSNBX4200Z_L	2	1000	600	827	1655	2.0	43	36	30	45	42
C4BSNBX4220Z_M	2.2	1000	600	512	1127	3.8	45	29	30	45	57.5
C4BSNBX4250Z_M	2.5	1000	600	512	1280	3.3	45	30	30	45	57.5
C4BSNBX4300Z_M	3	1000	600	512	1536	2.8	45	33	30	45	57.5
C4BSNBX4330Z_M	3.3	1000	600	512	1690	2.6	45	34	30	45	57.5
C4BSNBX4400Z_N	4	1000	600	512	2049	2.2	48	40	35	50	57.5
C4BSPBX3330ZEE	0.33	1200	630	1568	518	5.0	36	19	18	33	32
C4BSPBX3330Z_F	0.33	1200	630	965	319	9.5	41	15	20	40	41.5
C4BSPBX3470Z_F	0.47	1200	630	965	454	6.7	41	18	20	40	41.5
C4BSPBX3680Z_F	0.68	1200	630	965	656	4.7	41	21	20	40	41.5
C4BSPBX4100Z_J	1	1200	630	965	965	3.3	36	27	28	37	42.5
C4BSPBX4120Z_J	1.2	1200	630	965	1158	2.8	36	29	28	37	42.5
C4BSPBX4150Z_L	1.5	1200	630	965	1448	2.3	43	34	30	45	42
C4BSPBX4200Z_M	2	1200	630	598	1195	3.6	45	29	30	45	57.5
C4BSPBX4220Z_M	2.2	1200	630	598	1315	3.3	45	30	30	45	57.5
C4BSPBX4250Z_M	2.5	1200	630	598	1494	2.9	45	32	30	45	57.5
C4BSPBX4300Z_N	3	1200	630	598	1793	2.5	48	37	35	50	57.5
C4BSPBX4330Z_N	3.3	1200	630	598	1972	2.3	48	39	35	50	57.5
C4BSWBX3100ZEE	0.1	2000	700	2241	224	12.9	36	12	18	33	32
C4BSWBX3100Z_F	0.1	2000	700	1379	138	23.3	41	10	20	40	41.5
C4BSWBX3150ZEE	0.15	2000	700	2241	336	8.6	36	15	18	33	32
C4BSWBX3150Z_F	0.15	2000	700	1379	207	15.6	41	12	20	40	41.5
C4BSWBX3220Z_F	0.22	2000	700	1379	303	10.7	41	14	20	40	41.5
C4BSWBX3330Z_F	0.33	2000	700	1379	455	7.2	41	17	20	40	41.5
C4BSWBX3470Z_F	0.47	2000	700	1379	648	5.1	41	20	20	40	41.5
C4BSWBX3680Z_H	0.68	2000	700	1379	938	3.6	43	26	24	44	41.5
C4BSWBX3820Z_L	0.82	2000	700	1379	1131	3.0	43	30	30	45	42
C4BSWBX4100Z_M	1	2000	700	854	854	5.1	45	24	30	45	57.5
C4BSWBX4120Z_M	1.2	2000	700	854	1024	4.3	45	26	30	45	57.5
C4BSWBX4150Z_N	1.5	2000	700	854	1280	3.5	48	31	35	50	57.5
C4BSYBX2470ZEE	0.047	3000	750	3361	158	21.9	36	10	18	33	32
C4BSYBX2470Z_F	0.047	3000	750	2068	97	36.6	41	8	20	40	41.5
C4BSYBX2680ZEE	0.068	3000	750	3361	229	15.2	36	12	18	33	32
C4BSYBX2680Z_F	0.068	3000	750	2068	141	25.4	41	10	20	40	41.5
C4BSYBX3100Z_F	0.1	3000	750	2068	207	17.3	41	12	20	40	41.5
C4BSYBX3220Z_F	0.22	3000	750	2068	455	8.0	41	17	20	40	41.5
C4BSYBX3330Z_L	0.33	3000	750	2068	683	5.4	43	24	30	45	42
C4BSYBX3470Z_M	0.47	3000	750	1280	602	7.5	45	20	30	45	57.5
C4BSYBX3680Z_N	0.68	3000	750	1280	871	5.3	48	23	35	50	57.5
C4BSYBX3820Z_N	0.82	3000	750	1280	1050	4.4	48	28	35	50	57.5

## PEAK VOLTAGE TABLE

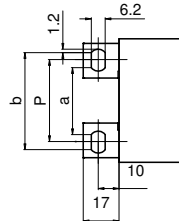
Un	250 V	400 V	600 V	700 V	850 V
$\hat{U}_{MAX}$	400 V	600 V	800 V	1000 V	1200V

The table body consists of a light blue header row followed by 20 rows of alternating light blue and white horizontal stripes. A thin black line is drawn across the stripes on the left side, starting from the left edge and extending slightly to the right.

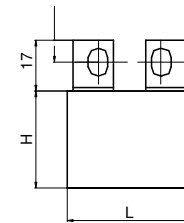
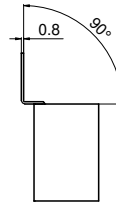
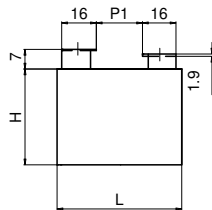




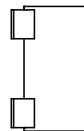
Style	L	P	a	b	P1
A	41.5	25.5	21.5	29.5	10.5
A	42	25.5	21.5	29.5	10.5
A	42.5	25.5	21.5	29.5	10.5
A	57.5	41	37	45	25



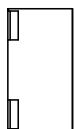
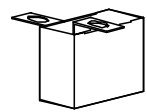
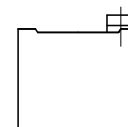
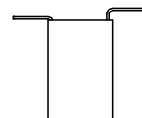
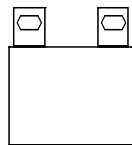
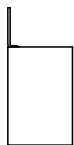
Style	L	P	a	b	P1
B	41.5	22	16	28	6
B	42	22	16	28	6
B	42.5	22	16	28	6
B	57.5	37	31	43	21



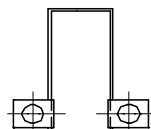
Style	L	P	a	b	P1
F	41.5	22	16	28	6
F	42	22	16	28	6
F	42.5	22	16	28	6
F	57.5	37	31	43	21



Style	L	P	a	b	P1
G	41.5	22	4	/	10.5
G	42	22	4	/	10.5
G	42.5	22	4	/	10.5
G	57.5	37	4	/	25



Style	L	P	a	b	P1
H	41.5	25.5	21.5	29.5	10.5
H	42	25.5	21.5	29.5	10.5
H	42.5	25.5	21.5	29.5	10.5
H	57.5	41	37	45	25



Style	B	P	P1	a	b
E	18	31	44	29	33
E	20	33	46	31	35
E	22	35	48	33	37
E	24	37	50	35	39
E	28	41	54	39	43
E	30	43	56	41	45

## SINGLE PACKAGE UNIT

Box dimensions	N° of pieces	Weight kgr	Box dimensions	N° of pieces	Weight kgr
20x40x41.5	54	3.0	30x45x42	36	3.4
28x37x42.5	36	2.7	30x45x57.5	27	3.2
24x44x41.5	42	3.2	35x50x57.5	23	3.5