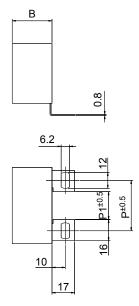
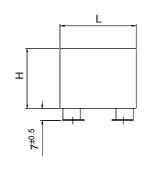




General characteristics

- 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 th digit)	J = ± 5 % ; K = ± 10%
Peak non-repetitive max current	I _{PKR} x 1.5
Test voltage terminal to terminal \mathbf{U}_{TT}	2 Un for 10 seconds
Test voltage terminal to case U _{TC}	3kV - 50Hz for 60 seconds
Dissipation factor ($tg\delta$)	≤ 5 x 10 ⁻⁴ at 1 kHz and 20 °C
Permissible relative humidity	Annual average ≤ 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 Un
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	\geq 30.000 hours at U_{RMS}, \geq 100.000 hours at Un
Failure quota	300 / 10° components hour





PEAK VOLTAGE TABLE

Un	850 V	1000 V	1200 V	2000 V	3000 V
Û _{MAX}	1200 V	1300 V	1600 V	2400 V	3500 V

GENERAL CHARACTERISTICS

Code	С	Un		dV/dt		ESR	ESL	I _{RMS}	DI	MENSIO	NS
Code		OII	U _{RMS}	u v/ut	I _{PKR}	max @ 100 kHz	LGL	100 kHz @ 70°C		mm	
	μF	Vdc	Vac	V/µs	Α	mΩ	nH	A	В	н	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
C4BSWBX3100ZLL_	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	0.13	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
C4BSYBX2470ZLL_	0.047	3000	750	2068	97	36.6	41	8	20	40	41.5
C4BSYBX2680ZEE	0.047	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	0.000	3000	750	2068	207	17.3	41	12	20	40	41.5
C4BSYBX3220Z F	0.1	3000	750	2068	455	8.0	41	17	20	40	41.5
C4BSYBX3330Z L	0.22	3000	750	2068	683	5.4	43	24	30	45	42
C4BSYBX3470Z M	0.33	3000	750	1280	602	7.5	45	20	30	45	57.5
C4BSYBX3680Z_N_	0.47	3000	750	1280	871	5.3	48	23	35	50	57.5 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
Û _{MAX}	400 V	600 V	800 V	1000 V	1200V

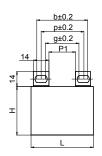
GENERAL CHARACTERISTICS

Code	С	Un	U _{RMS}	dv/dt	I _{PKR}	ESR max @ 100 kHz	ESL	I _{RMS} 100 kHz @ 70°C	DI	MENSIOI mm	NS
Code	μF	Vdc	Vac	V/µs	A	mΩ	nH	A	В	н	L
C4BTDBX4470ZEE_	4.7	250	160	59	279	2.6	36	22	18	33	32
C4BTDBX4680ZEE_	6.8	250	160	59	403	1.9	36	26	18	33	32
C4BTDBX5100Z_F_	10	250	160	40	402	2.6	41	27	20	40	41.5
C4BTDBX5150Z_F_	15	250	160	40	602	1.8	41	32	20	40	41.5
C4BTDBX5200Z_J_	20	250	160	40	803	1.4	36	39	28	37	42.5
C4BTDBX5250Z_H_	25	250	160	40	1004	1.2	43	43	24	44	42
C4BTDBX5300Z L	30	250	160	40	1205	1.0	43	50	30	45	42
C4BTDBX5400Z M	40	250	160	27	1082	1.5	45	46	30	45	57.5
C4BTDBX5500Z N	50	250	160	27	1353	1.2	48	54	35	50	57.5
C4BTDBX5600Z N	60	250	160	27	1624	1.1	48	58	35	50	57.5
C4BTFBX4330ZEE	3.3	400	250	74	245	3.0	36	21	18	33	32
C4BTFBX4400ZEE	4	400	250	74	296	2.5	36	23	18	33	32
C4BTFBX4400Z F	4	400	250	50	201	4.9	41	19	20	40	41.5
C4BTFBX4500ZEE	5	400	250	74	370	2.0	36	25	18	33	32
C4BTFBX4500Z F	5	400	250	50	251	4.0	41	22	20	40	41.5
C4BTFBX4680Z F	6.8	400	250	50	341	3.0	41	25	20	40	41.5
C4BTFBX5100Z F	10	400	250	50	502	2.1	41	30	20	40	41.5
C4BTFBX5125Z J	12.5	400	250	50	627	1.7	36	35	28	37	42.5
C4BTFBX5150Z J	15	400	250	50	753	1.5	36	38	28	37	42.5
C4BTFBX5200Z L	20	400	250	50	1004	1.2	43	46	30	45	42.3
	25	400	250	34	846	1.8	45	41		45	42
C4BTFBX5250Z_M_	30	400				1.6	45 45	45	30	45	42
C4BTFBX5300Z_M_			250	34	1015				30	-	
C4BTFBX5350Z_N_	35	400	250	34	1184	1.4	48	52	35	50	57.5
C4BTFBX5400Z_N_	40	400	250	34	1353	1.2	48	54	35	50	57.5
C4BTHBX4250ZEE_	2.5	600	330	104	259	2.9	36	21	18	33	32
C4BTHBX4250Z_F_	2.5	600	330	70	176	5.7	41	18	20	40	41.5
C4BTHBX4300Z_F_	3	600	330	70	211	4.8	41	20	20	40	41.5
C4BTHBX4400Z_F_	4	600	330	70	281	3.6	41	23	20	40	41.5
C4BTHBX4500Z_F_	5	600	330	70	351	2.9	41	25	20	40	41.5
C4BTHBX4680Z_J_	6.8	600	330	70	478	2.2	41	31	28	37	42.5
C4BTHBX4800Z_H_	8	600	330	70	562	1.9	43	34	24	44	42
C4BTHBX5100Z_L_	10	600	330	70	703	1.6	43	40	30	45	42
C4BTHBX5125Z_M_	12.5	600	330	47	592	2.5	45	35	30	45	57.5
C4BTHBX5150Z_M_	15	600	330	47	710	2.1	45	38	30	45	57.5
C4BTHBX5200Z_N_	20	600	330	47	947	1.7	48	47	35	50	57.5
C4BTJBX4150ZEE_	1.5	700	400	119	178	4.2	36	18	18	33	32
C4BTJBX4150Z_F_	1.5	700	400	80	120	8.2	41	15	20	40	41.5
C4BTJBX4200ZEE_	2	700	400	119	237	3.2	36	20	18	33	32
C4BTJBX4200Z_F_	2	700	400	80	161	6.2	41	17	20	40	41.5
C4BTJBX4220Z F	2.2	700	400	80	177	5.7	41	18	20	40	41.5
C4BTJBX4300Z F	3	700	400	80	241	4.2	41	21	20	40	41.5
C4BTJBX4400Z F	4	700	400	80	321	3.2	41	24	20	40	41.5
C4BTJBX4500Z J	5	700	400	80	402	2.6	36	29	28	37	42
C4BTJBX4800Z_U	8	700	400	80	642	1.7	43	38	30	45	57.5
C4BTJBX5100Z M	10	700	400	54	541	2.7	45	34	30	45	57.5
C4BTJBX5150Z N	15	700	400	54	812	1.9	48	44	35	50	57.5
C4BTMBX4100ZEE	1	850	450	148	148	5.1	36	16	18	33	32
C4BTMBX4100ZEE_	1	850	450	100	100	9.9	41	14	20	40	41.5
C4BTMBX4100Z_F_		850	450	100	151	6.7	41	17	20	40	41.5
	1.5										
C4BTMBX4200Z_F_	2	850	450	100	201	5.1	41	19	20	40	41.5
C4BTMBX4300Z_F_	3	850	450	100	301	3.4	41	23	20	40	41.5
C4BTMBX4400Z_H_	4	850	450	100	402	2.6	43	29	24	44	42
C4BTMBX4500Z_L_	5	850	450	100	502	2.2	43	34	30	45	42
C4BTMBX4800Z_N_	8	850	450	68	541	2.8	48	37	35	50	57.5
C4BTMBX5100Z_N_	10	850	450	68	677	2.3	48	40	35	50	57.5

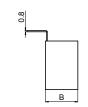


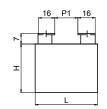
MKP Series BOX CAPACITORS IGBT APPLICATIONS

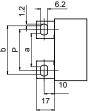




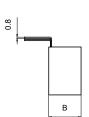
Style	L	Р	а	b	P1
Α	41.5	25.5	21.5	29.5	10.5
Α	42	25.5	21.5	29.5	10.5
Α	42.5	25.5	21.5	29.5	10.5
Α	57.5	41	37	45	25

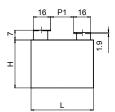




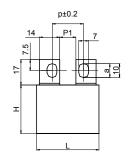


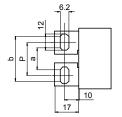
Style	L	Р	а	b	P1
В	41.5	22	16	28	6
В	42	22	16	28	6
В	42.5	22	16	28	6
В	57.5	37	31	43	21







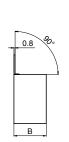


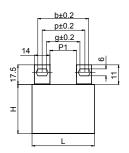


Style	L	Р	а	b	P1
F	41.5	22	16	28	6
F	42	22	16	28	6
F	42.5	22	16	28	6
F	57.5	37	31	43	21



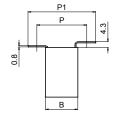
Style	L	Р	а	b	P1
G	41.5	22	4	1	10.5
G	42	22	4	1	10.5
G	42.5	22	4	1	10.5
G	57.5	37	4	1	25

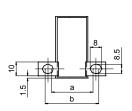


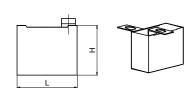




Style	L	Р	а	b	P1
Н	41.5	25.5	21.5	29.5	10.5
Н	42	25.5	21.5	29.5	10.5
Н	42.5	25.5	21.5	29.5	10.5
Н	57.5	41	37	45	25







Style	В	Р	P1	а	b
Е	18	31	44	29	33
Е	20	33	46	31	35
Е	22	35	48	33	37
E	24	37	50	35	39
Е	28	41	54	39	43
Е	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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Kemet:

C4BSPBX3680ZAFJ C4BSPBX4150ZALJ C4BSPBX4200ZAMJ C4BSPBX4100ZBJJ C4BSPBX4150ZBLJ C4BSPBX4200ZBMJ C4BSPBX4300ZANJ