

BX7

HIGH VOLTAGE DC CAPACITORS

HIGH CURRENT AL FOIL FILM CAPACITORS
IN PLASTIC CASE AND EPOXY FILLING
CUSTOM DESIGNS AVAILABLE



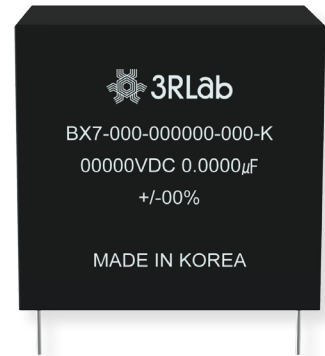
MAIN CHARACTERISTICS:

- HIGH PULSE DUTY
- PLASTIC CASE AND EPOXY FILLING
- VERY LOW DISSIPATION FACTOR

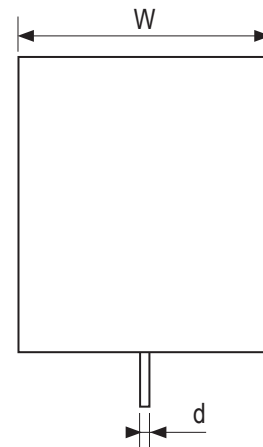
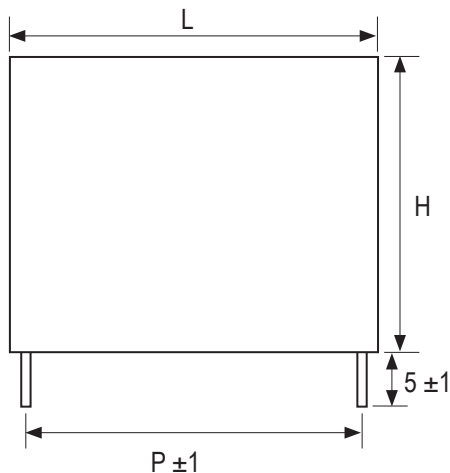


MAIN APPLICATIONS:

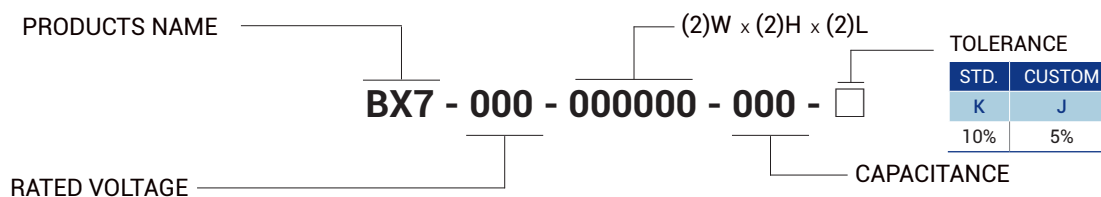
- HIGH VOLTAGE, HIGH PULSE APPLICATIONS
- ENERGY CONVERSION AND CONTROL IN POWER SEMICONDUCTOR CIRCUITS
- SMPS, MOTOR SPEED CONTROLS, AUDIO



DIMENSIONS [mm]



ORDERING INFORMATION



ALL SPECIFICATIONS MAY CHANGE WITHOUT NOTICE

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SPECIFICATIONS

DC VOLTAGE RANGE	400 ~ 2000 VDC
CAPACITANCE RANGE	UP TO 6.8 μ F
CAPACITANCE TOLERANCE (+25°C)	STANDARD: \pm 10% ON REQUEST \pm 5%
EQUIVALENT SERIES RESISTANCE (ESR)	< 4.5 m Ω
MAXIMUM VOLTAGE RATE OF RISE(dV/dT)	\leq 9000 V/ μ s
TERMINALS	TIN COPPER WIRE
VOLTAGE TEST	RATED VOLTAGE X 1.2 TIMES FOR 10 SECS
WORKING & STORAGE TEMPERATURE	-55 / +85 °C
FILLING	FLAME RETARDANT EPOXY UL94V-0 RESIN
SQUARE PLASTIC CASE	FLAME RETARDANT PBT UL94V-0
LIFE EXPECTANCY	100,000 HOURS TYP.
SOLDERING HEAT TEST	TEMPERATURE = 260 \pm 5°C FOR 10 SECS
DISSIPATION FACTOR	DF VALUE \leq 0.05 %, MEASURED AT 25 \pm 5°C, 1 kHz
INSULATION RESISTANCE (RINS)	C \leq 0.33 μ F \geq 100,000M Ω , C > 0.33 μ F \geq 30,000 SEC (M Ω X μ F) AT 25 \pm °C, AFTER 1 MINUTE OF ELECTRIFICATION AT 100VDC

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400VDC, RATED VOLTAGE										
VOLTAGE [V]		CAP ⁽³⁾	DIMENSIONS [mm]					LEAD	CURRENT	ORDERING CODE
VDC	V-PEAK ⁽¹⁾	μF	W	H	L	P	d	AWG	I-PEAK ⁽²⁾ [A]	
400	560	0.1	15	24	32	27.5	0.8	20	600	BX7-040-152432-104-K
400	560	0.15	15	24	32	27.5	0.8	20	900	BX7-040-152432-154-K
400	560	0.22	15	24	32	27.5	0.8	20	1320	BX7-040-152432-224-K
400	560	0.33	18	33	32	27.5	0.8	20	990	BX7-040-183332-334-K
400	560	0.47	18	33	32	27.5	0.8	20	1410	BX7-040-183332-474-K
400	560	0.68	20	39.5	41.5	37.5	1	18	2040	BX7-040-203941-684-K
400	560	1	20	39.5	41.5	37.5	1	18	1000	BX7-040-203941-105-K
400	560	1.2	20	39.5	41.5	37.5	1	18	1200	BX7-040-203941-125-K
400	560	1.5	34	36	45	37.5	1	18	1500	BX7-040-343645-155-K
400	560	2	34	45	45	37.5	1	18	2000	BX7-040-344545-205-K
400	560	2.2	34	45	45	37.5	1	18	2200	BX7-040-344545-225-K
400	560	2.5	34	45	45	37.5	1	18	2500	BX7-040-344545-255-K
400	560	3	42	47	45	37.5	1	18	3000	BX7-040-424745-305-K
400	560	3.3	42	47	45	37.5	1	18	3300	BX7-040-424745-335-K
400	560	4	35	50	57	52.5	1.2	16	4000	BX7-040-355057-405-K
400	560	4.7	35	50	57	52.5	1.2	16	4700	BX7-040-355057-475-K
400	560	5	35	50	57	52.5	1.2	16	3000	BX7-040-355057-505-K
400	560	5.5	38	54	57	52.5	1.2	16	3300	BX7-040-385457-555-K
400	560	6	38	54	57	52.5	1.2	16	3600	BX7-040-385457-605-K
400	560	6.8	50	55	57	52.5	1.2	16	4080	BX7-040-505557-685-K

**CAPACITANCE AND THREADS TERMINAL AVAILABLE AS CUSTOM.

(1) NON-REPETITIVE PEAK VOLTAGE LESS THAN 00ms TYP.

(2) NON-REPETITIVE PEAK CURRENT LESS THAN 00ms TYP.

(3) MEASURED AT 1kHz ±20Hz AT 25°C

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630VDC, RATED VOLTAGE										
VOLTAGE [V]		CAP ⁽³⁾	DIMENSIONS [mm]					LEAD	CURRENT	ORDERING CODE
VDC	V-PEAK ⁽¹⁾	μF	W	H	L	P	d	AWG	I-PEAK ⁽²⁾ [A]	
630	880	0.1	15	24	32	27.5	0.8	20	900	BX7-063-152432-104-K
630	880	0.15	15	24	32	27.5	0.8	20	1350	BX7-063-152432-154-K
630	880	0.22	15	24	32	27.5	0.8	20	1980	BX7-063-152432-224-K
630	880	0.33	18	33	32	27.5	0.8	20	1650	BX7-063-183332-334-K
630	880	0.47	20	39.5	41.5	37.5	1	18	2350	BX7-063-203941-474-K
630	880	0.68	20	39.5	41.5	37.5	1	18	3400	BX7-063-203941-684-K
630	880	1	20	39.5	41.5	37.5	1	18	1600	BX7-063-203941-105-K
630	880	1.2	34	36	45	37.5	1	18	1920	BX7-063-343645-125-K
630	880	1.5	34	36	45	37.5	1	18	2400	BX7-063-343645-155-K
630	880	2	34	45	45	37.5	1	18	3200	BX7-063-344545-205-K
630	880	2.2	34	45	45	37.5	1	18	3520	BX7-063-344545-225-K
630	880	2.5	42	47	45	37.5	1	18	4000	BX7-063-424745-255-K
630	880	3	35	50	57	52.5	1.2	16	4800	BX7-063-355057-305-K
630	880	3.3	35	50	57	52.5	1.2	16	5280	BX7-063-355057-335-K
630	880	4	35	50	57	52.5	1.2	16	6400	BX7-063-355057-405-K
630	880	4.7	35	50	57	52.5	1.2	16	7520	BX7-063-355057-475-K
630	880	5	38	54	57	52.5	1.2	16	4000	BX7-063-385457-505-K
630	880	5.5	38	54	57	52.5	1.2	16	4400	BX7-063-385457-555-K
630	880	6	50	55	57	52.5	1.2	16	4800	BX7-063-505557-605-K
630	880	6.8	50	55	57	52.5	1.2	16	5440	BX7-063-505557-685-K

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850VDC, RATED VOLTAGE										
VOLTAGE [V]		CAP ⁽³⁾	DIMENSIONS [mm]					LEAD	CURRENT	ORDERING CODE
VDC	V-PEAK ⁽¹⁾	μF	W	H	L	P	d	AWG	I-PEAK ⁽²⁾ [A]	
850	1200	0.1	15	24	32	27.5	0.8	20	900	BX7-085-152432-104-K
850	1200	0.15	15	24	32	27.5	0.8	20	1350	BX7-085-152432-154-K
850	1200	0.22	15	24	32	27.5	0.8	20	1980	BX7-085-152432-224-K
850	1200	0.33	18	33	32	27.5	0.8	20	1650	BX7-085-183332-334-K
850	1200	0.47	20	39.5	41.5	37.5	1	18	2350	BX7-085-203941-474-K
850	1200	0.68	20	39.5	41.5	37.5	1	18	3400	BX7-085-203941-684-K
850	1200	1	20	39.5	41.5	37.5	1	18	1600	BX7-085-203941-105-K
850	1200	1.2	34	36	45	37.5	1	18	1920	BX7-085-343645-125-K
850	1200	1.5	34	36	45	37.5	1	18	2400	BX7-085-343645-155-K
850	1200	2	34	45	45	37.5	1	18	3200	BX7-085-344545-205-K
850	1200	2.2	34	45	45	37.5	1	18	3520	BX7-085-344545-225-K
850	1200	2.5	42	47	45	37.5	1	18	4000	BX7-085-424745-255-K
850	1200	3	35	50	57	52.5	1.2	16	4800	BX7-085-355057-305-K
850	1200	3.3	35	50	57	52.5	1.2	16	5280	BX7-085-355057-335-K
850	1200	4	35	50	57	52.5	1.2	16	6400	BX7-085-355057-405-K
850	1200	4.7	35	50	57	52.5	1.2	16	7520	BX7-085-355057-475-K
850	1200	5	38	54	57	52.5	1.2	16	4000	BX7-085-385457-505-K
850	1200	5.5	38	54	57	52.5	1.2	16	4400	BX7-085-385457-555-K
850	1200	6	50	55	57	52.5	1.2	16	4800	BX7-085-505557-605-K
850	1200	6.8	50	55	57	52.5	1.2	16	5440	BX7-085-505557-685-K

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(3) MEASURED AT 1kHz ±20Hz AT 25°C

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1000VDC, RATED VOLTAGE										
VOLTAGE [V]		CAP ⁽³⁾	DIMENSIONS [mm]					LEAD	CURRENT	ORDERING CODE
VDC	V-PEAK ⁽¹⁾	μF	W	H	L	P	d	AWG	I-PEAK ⁽²⁾ [A]	
1000	1400	0.068	15	24	32	27.5	0.8	20	612	BX7-100-152432-683-K
1000	1400	0.1	15	24	32	27.5	0.8	20	900	BX7-100-152432-104-K
1000	1400	0.15	15	24	32	27.5	0.8	20	1350	BX7-100-152432-154-K
1000	1400	0.22	18	33	32	27.5	0.8	20	1980	BX7-100-183332-224-K
1000	1400	0.33	20	39.5	41.5	37.5	1	18	1650	BX7-100-203941-334-K
1000	1400	0.47	20	39.5	41.5	37.5	1	18	2350	BX7-100-203941-474-K
1000	1400	0.68	20	39.5	41.5	37.5	1	18	3400	BX7-100-203941-684-K
1000	1400	1	34	36	45	37.5	1	18	2000	BX7-100-343645-105-K
1000	1400	1.2	34	36	45	37.5	1	18	2400	BX7-100-343645-125-K
1000	1400	1.5	34	45	45	37.5	1	18	3000	BX7-100-344545-155-K
1000	1400	2	42	47	45	37.5	1	18	4000	BX7-100-424745-205-K
1000	1400	2.2	35	50	57	52.5	1.2	16	4400	BX7-100-355057-225-K
1000	1400	2.5	35	50	57	52.5	1.2	16	5000	BX7-100-355057-255-K
1000	1400	3	35	50	57	52.5	1.2	16	6000	BX7-100-355057-305-K
1000	1400	3.3	38	54	57	52.5	1.2	16	6600	BX7-100-385457-335-K
1000	1400	4	38	54	57	52.5	1.2	16	8000	BX7-100-385457-405-K
1000	1400	5	50	55	57	52.5	1.2	16	5000	BX7-100-505557-505-K

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1250VDC, RATED VOLTAGE										
VOLTAGE [V]		CAP ⁽³⁾	DIMENSIONS [mm]					LEAD	CURRENT	ORDERING CODE
VDC	V-PEAK ⁽¹⁾	μF	W	H	L	P	d	AWG	I-PEAK ⁽²⁾ [A]	
1250	1750	0.047	15	24	32	27.5	0.8	20	423	BX7-125-152432-473-K
1250	1750	0.068	15	24	32	27.5	0.8	20	612	BX7-125-152432-683-K
1250	1750	0.1	15	24	32	27.5	0.8	20	900	BX7-125-152432-104-K
1250	1750	0.15	15	24	32	27.5	0.8	20	1350	BX7-125-152432-154-K
1250	1750	0.22	18	33	32	27.5	0.8	20	1980	BX7-125-183332-224-K
1250	1750	0.33	20	39.5	41.5	37.5	1	18	1650	BX7-125-203941-334-K
1250	1750	0.47	20	39.5	41.5	37.5	1	18	2350	BX7-125-203941-474-K
1250	1750	0.68	34	36	45	37.5	1	18	3400	BX7-125-343645-684-K
1250	1750	1	34	45	45	37.5	1	18	2000	BX7-125-344545-105-K
1250	1750	1.2	34	45	45	37.5	1	18	2400	BX7-125-344545-125-K
1250	1750	1.5	42	47	45	37.5	1	18	3000	BX7-125-424745-155-K
1250	1750	2	35	50	57	52.5	1.2	16	4000	BX7-125-355057-205-K
1250	1750	2.2	35	50	57	52.5	1.2	16	4400	BX7-125-355057-225-K
1250	1750	2.5	38	54	57	52.5	1.2	16	5000	BX7-125-385457-255-K
1250	1750	3	38	54	57	52.5	1.2	16	6000	BX7-125-385457-305-K
1250	1750	3.3	50	55	57	52.5	1.2	16	6600	BX7-125-505557-335-K
1250	1750	4	50	55	57	52.5	1.2	16	8000	BX7-125-505557-405-K

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1600VDC, RATED VOLTAGE										
VOLTAGE [V]		CAP ⁽³⁾	DIMENSIONS [mm]					LEAD	CURRENT	ORDERING CODE
VDC	V-PEAK ⁽¹⁾	μF	W	H	L	P	d	AWG	I-PEAK ⁽²⁾ [A]	
1600	2250	0.033	15	24	32	27.5	0.8	20	297	BX7-160-152432-333-K
1600	2250	0.047	15	24	32	27.5	0.8	20	423	BX7-160-152432-473-K
1600	2250	0.068	15	24	32	27.5	0.8	20	612	BX7-160-152432-683-K
1600	2250	0.1	18	33	32	27.5	0.8	20	900	BX7-160-183332-104-K
1600	2250	0.15	20	39.5	41.5	37.5	1	18	1350	BX7-160-203941-154-K
1600	2250	0.22	20	39.5	41.5	37.5	1	18	1980	BX7-160-203941-224-K
1600	2250	0.33	20	39.5	41.5	37.5	1	18	1650	BX7-160-203941-334-K
1600	2250	0.47	34	36	45	37.5	1	18	2350	BX7-160-343645-474-K
1600	2250	0.68	34	45	45	37.5	1	18	3400	BX7-160-344545-684-K
1600	2250	1	35	50	57	52.5	1.2	16	2000	BX7-160-355057-105-K
1600	2250	1.2	35	50	57	52.5	1.2	16	2400	BX7-160-355057-125-K
1600	2250	1.5	38	54	57	52.5	1.2	16	3000	BX7-160-385457-155-K
1600	2250	2	50	55	57	52.5	1.2	16	4000	BX7-160-505557-205-K

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2000VDC, RATED VOLTAGE										
VOLTAGE [V]		CAP ⁽³⁾	DIMENSIONS [mm]					LEAD	CURRENT	ORDERING CODE
VDC	V-PEAK ⁽¹⁾	μF	W	H	L	P	d	AWG	I-PEAK ⁽²⁾ [A]	
2000	2800	0.022	15	24	32	27.5	0.8	20	198	BX7-200-152432-223-K
2000	2800	0.033	15	24	32	27.5	0.8	20	297	BX7-200-152432-333-K
2000	2800	0.047	15	24	32	27.5	0.8	20	423	BX7-200-152432-473-K
2000	2800	0.068	18	33	32	27.5	0.8	20	612	BX7-200-183332-683-K
2000	2800	0.1	20	39.5	41.5	37.5	1	18	900	BX7-200-203941-104-K
2000	2800	0.15	20	39.5	41.5	37.5	1	18	1350	BX7-200-203941-154-K
2000	2800	0.22	20	39.5	41.5	37.5	1	18	1980	BX7-200-203941-224-K
2000	2800	0.33	34	36	45	37.5	1	18	1650	BX7-200-343645-334-K
2000	2800	0.47	34	45	45	37.5	1	18	2350	BX7-200-344545-474-K
2000	2800	0.68	35	50	57	52.5	1.2	16	3400	BX7-200-355057-684-K
2000	2800	1	35	50	57	52.5	1.2	16	2000	BX7-200-355057-105-K
2000	2800	1.2	38	54	57	52.5	1.2	16	2400	BX7-200-385457-125-K
2000	2800	1.5	50	55	57	52.5	1.2	16	3000	BX7-200-505557-155-K

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(2) NON-REPETITIVE PEAK CURRENT LESS THAN 00ms TYP.

(3) MEASURED AT 1kHz ±20Hz AT 25°C

ALL INFORMATION ON THE FILE MAY CHANGE WITHOUT NOTICE

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UPDATE 2023-04-25