

BX3

HIGH VOLTAGE DC CAPACITORS

METALLIZED POLYPROPYLENE CAPACITORS
IN PLASTIC CASE AND EPOXY FILLING
CUSTOM DESIGNS AVAILABLE



MAIN FEATURES:

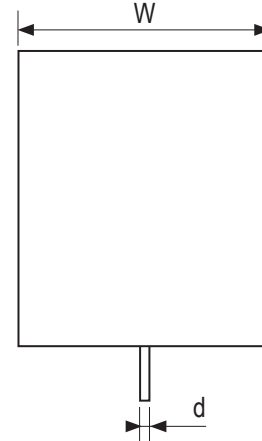
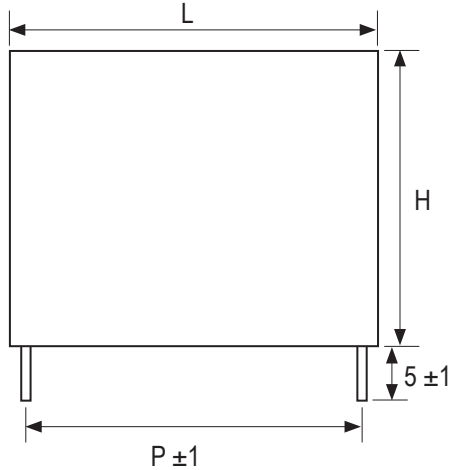
- SELF-HEALING METALLIZED POLYPROPYLENE FILM
- PLASTIC CASE AND EPOXY FILLING
- VERY LOW DISSIPATION FACTOR

MAIN APPLICATIONS:

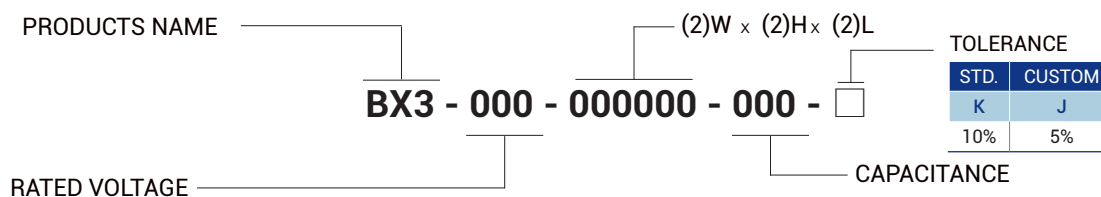
- OSCILLATING CIRCUITS , HIGH FREQUENCY
- ENERGY CONVERSION AND CONTROL IN POWER SEMICONDUCTOR CIRCUITS
- SMPS, MOTOR SPEED CONTROLS



DIMENSIONS [mm]



ORDERING INFORMATION



ALL SPECIFICATIONS MAY CHANGE WITHOUT NOTICE

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SPECIFICATIONS

DC VOLTAGE RANGE	400 ~ 1250 VDC
CAPACITANCE RANGE	UP TO 25 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 350 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
PROTECTIVE MECHANISM	SELF HEALING
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	1	15	24	32	27.5	0.8	20	100	BX3-040-152432-105-K
400	560	1.2	15	24	32	27.5	0.8	20	120	BX3-040-152432-125-K
400	560	1.5	15	24	32	27.5	0.8	20	150	BX3-040-152432-155-K
400	560	2	15	24	32	27.5	0.8	20	200	BX3-040-152432-205-K
400	560	2.2	15	24	32	27.5	0.8	20	220	BX3-040-152432-225-K
400	560	2.5	15	24	32	27.5	0.8	20	250	BX3-040-152432-255-K
400	560	3	18	33	32	27.5	0.8	20	300	BX3-040-183332-305-K
400	560	3.3	18	33	32	27.5	0.8	20	330	BX3-040-183332-335-K
400	560	4	18	33	32	27.5	0.8	20	400	BX3-040-183332-405-K
400	560	4.7	17	28	42.5	37.5	1	18	470	BX3-040-172842-475-K
400	560	5	17	28	42.5	37.5	1	18	500	BX3-040-172842-505-K
400	560	5.5	20	39.5	41.5	37.5	1	18	550	BX3-040-203941-555-K
400	560	6	20	39.5	41.5	37.5	1	18	600	BX3-040-203941-605-K
400	560	6.8	20	39.5	41.5	37.5	1	18	408	BX3-040-203941-685-K
400	560	7.5	20	39.5	41.5	37.5	1	18	450	BX3-040-203941-755-K
400	560	8	20	39.5	41.5	37.5	1	18	480	BX3-040-203941-805-K
400	560	9	20	39.5	41.5	37.5	1	18	540	BX3-040-203941-905-K
400	560	10	34	36	45	37.5	1	18	600	BX3-040-343645-106-K
400	560	12	34	36	45	37.5	1	18	480	BX3-040-343645-126-K
400	560	15	34	36	45	37.5	1	18	600	BX3-040-343645-156-K
400	560	18	34	45	45	37.5	1	18	720	BX3-040-344545-186-K
400	560	20	42	47	45	37.5	1	18	800	BX3-040-424745-206-K
400	560	22	42	47	45	37.5	1	18	880	BX3-040-424745-226-K
400	560	25	42	47	45	37.5	1	18	1000	BX3-040-424745-256-K

**CUSTOM CAPACITANCE AND THREAD TERMINALS ARE AVAILABLE

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

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

(3) MEASURED AT 1kHz ±20Hz AT 25°C

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UPDATE 2023-04-25

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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	900	0.47	15	24	32	27.5	0.8	20	94	BX3-063-152432-474-K
630	900	0.68	15	24	32	27.5	0.8	20	136	BX3-063-152432-684-K
630	900	1	15	24	32	27.5	0.8	20	150	BX3-063-152432-105-K
630	900	1.2	15	24	32	27.5	0.8	20	180	BX3-063-152432-125-K
630	900	1.5	18	33	32	27.5	0.8	20	225	BX3-063-183332-155-K
630	900	2	18	33	32	27.5	0.8	20	300	BX3-063-183332-205-K
630	900	2.2	18	33	32	27.5	0.8	20	330	BX3-063-183332-225-K
630	900	2.5	17	28	42.5	37.5	1	18	375	BX3-063-172842-255-K
630	900	3	20	39.5	41.5	37.5	1	18	450	BX3-063-203941-305-K
630	900	3.3	20	39.5	41.5	37.5	1	18	396	BX3-063-203941-335-K
630	900	4	20	39.5	41.5	37.5	1	18	480	BX3-063-203941-405-K
630	900	4.7	20	39.5	41.5	37.5	1	18	564	BX3-063-203941-475-K
630	900	5	20	39.5	41.5	37.5	1	18	600	BX3-063-203941-505-K
630	900	5.5	34	36	45	37.5	1	18	660	BX3-063-343645-555-K
630	900	6	34	36	45	37.5	1	18	720	BX3-063-343645-605-K
630	900	6.8	34	36	45	37.5	1	18	578	BX3-063-343645-685-K
630	900	7.5	34	36	45	37.5	1	18	635	BX3-063-343645-755-K
630	900	8	34	45	45	37.5	1	18	680	BX3-063-344545-805-K
630	900	9	34	45	45	37.5	1	18	765	BX3-063-344545-905-K
630	900	10	34	45	45	37.5	1	18	850	BX3-063-344545-106-K
630	900	12	42	47	45	37.5	1	18	600	BX3-063-424745-126-K

**CAPACITANCE AND THREADS TERMINAL AVAILABLE AS CUSTOM.

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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	0.33	15	24	32	27.5	0.8	20	66	BX3-085-152432-334-K
850	1200	0.47	15	24	32	27.5	0.8	20	94	BX3-085-152432-474-K
850	1200	0.68	18	33	32	27.5	0.8	20	136	BX3-085-183332-684-K
850	1200	1	18	33	32	27.5	0.8	20	150	BX3-085-183332-105-K
850	1200	1.2	18	33	32	27.5	0.8	20	180	BX3-085-183332-125-K
850	1200	1.5	20	39.5	41.5	37.5	1	18	225	BX3-085-203941-155-K
850	1200	2	20	39.5	41.5	37.5	1	18	300	BX3-085-203941-205-K
850	1200	2.2	20	39.5	41.5	37.5	1	18	330	BX3-085-203941-225-K
850	1200	2.5	34	36	45	37.5	1	18	375	BX3-085-343645-255-K
850	1200	3	34	36	45	37.5	1	18	450	BX3-085-343645-305-K
850	1200	3.3	34	36	45	37.5	1	18	396	BX3-085-343645-335-K
850	1200	4	34	45	45	37.5	1	18	480	BX3-085-344545-405-K
850	1200	4.7	34	45	45	37.5	1	18	564	BX3-085-344545-475-K
850	1200	5	34	45	45	37.5	1	18	600	BX3-085-344545-505-K
850	1200	5.5	42	47	45	37.5	1	18	468	BX3-085-424745-555-K
850	1200	6	42	47	45	37.5	1	18	510	BX3-085-424745-605-K

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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	0.22	15	24	32	27.5	0.8	20	66	BX3-100-152432-224-K
1000	1400	0.33	15	24	32	27.5	0.8	20	66	BX3-100-152432-334-K
1000	1400	0.47	18	33	32	27.5	0.8	20	94	BX3-100-183332-474-K
1000	1400	0.68	18	33	32	27.5	0.8	20	136	BX3-100-183332-684-K
1000	1400	1	20	39.5	41.5	37.5	1	18	150	BX3-100-203941-105-K
1000	1400	1.2	20	39.5	41.5	37.5	1	18	180	BX3-100-203941-125-K
1000	1400	1.5	20	39.5	41.5	37.5	1	18	225	BX3-100-203941-155-K
1000	1400	2	34	36	45	37.5	1	18	300	BX3-100-343645-205-K
1000	1400	2.2	34	36	45	37.5	1	18	330	BX3-100-343645-225-K
1000	1400	2.5	34	36	45	37.5	1	18	375	BX3-100-343645-255-K
1000	1400	3	34	45	45	37.5	1	18	450	BX3-100-344545-305-K
1000	1400	3.3	34	45	45	37.5	1	18	495	BX3-100-344545-335-K
1000	1400	4	42	47	45	37.5	1	18	400	BX3-100-424745-405-K
1000	1400	4.7	42	47	45	37.5	1	18	470	BX3-100-424745-475-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	0.15	15	24	32	27.5	0.8	20	52.5	BX3-125-152432-154-K
1250	1750	0.22	15	24	32	27.5	0.8	20	77	BX3-125-152432-224-K
1250	1750	0.33	15	24	32	27.5	0.8	20	82.5	BX3-125-152432-334-K
1250	1750	0.47	18	33	32	27.5	0.8	20	118	BX3-125-183332-474-K
1250	1750	0.68	17	28	42.5	37.5	1	18	170	BX3-125-172842-684-K
1250	1750	1	20	39.5	41.5	37.5	1	18	200	BX3-125-203941-105-K
1250	1750	1.2	20	39.5	41.5	37.5	1	18	240	BX3-125-203941-125-K
1250	1750	1.5	34	36	45	37.5	1	18	300	BX3-125-343645-155-K
1250	1750	2	34	45	45	37.5	1	18	400	BX3-125-344545-205-K
1250	1750	2.2	34	45	45	37.5	1	18	440	BX3-125-344545-225-K
1250	1750	2.5	34	45	45	37.5	1	18	500	BX3-125-344545-255-K
1250	1750	3	42	47	45	37.5	1	18	420	BX3-125-424745-305-K
1250	1750	3.3	42	47	45	37.5	1	18	462	BX3-125-424745-335-K

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UPDATE 2023-04-25