

# BX5

HIGH VOLTAGE DC CAPACITORS

HIGH VOLTAGE DOUBLE SIDED METALLIZED  
POLYPROPYLENE 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

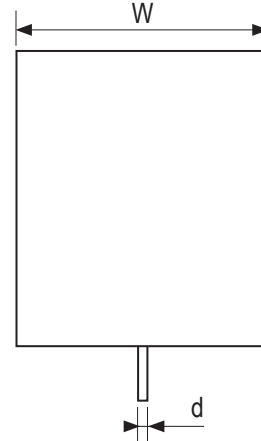
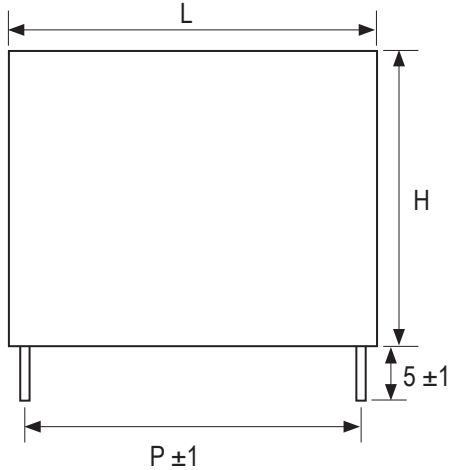


## MAIN APPLICATIONS:

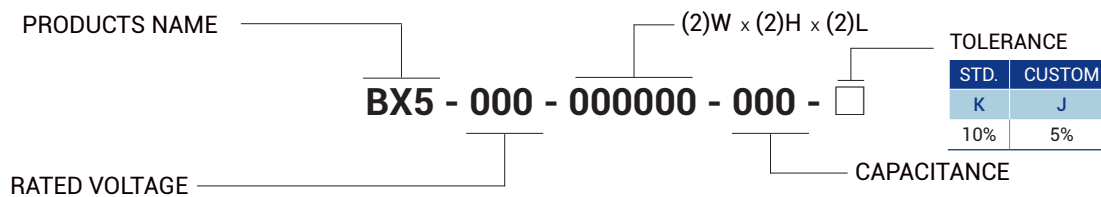
- HIGH VOLTAGE, MEDIUM PULSE APPLICATIONS
- ENERGY CONVERSION AND CONTROL  
IN POWER SEMICONDUCTOR CIRCUITS
- LIGHTING, TV AND MONITOR
- SMPS, MOTOR SPEED CONTROLS



## DIMENSIONS [mm]



## ORDERING INFORMATION



ALL SPECIFICATIONS MAY CHANGE WITHOUT NOTICE

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## SPECIFICATIONS

DC VOLTAGE RANGE	400 ~ 3000 VDC
CAPACITANCE RANGE	UP TO 25 $\mu$ F
CAPACITANCE TOLERANCE (+25°C)	STANDARD: $\pm$ 10% ON REQUEST $\pm$ 5%
EQUIVALENT SERIES RESISTANCE (ESR)	< 4.5 m $\Omega$
MAXIMUM VOLTAGE RATE OF RISE(dV/dT)	$\leq$ 2700 V/ $\mu$ 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 $\mu$ F $\geq$ 100,000M $\Omega$ , C > 0.33 $\mu$ F $\geq$ 30,000 SEC (M $\Omega$ X $\mu$ F) AT 25 $\pm$ °C, AFTER 1 MINUTE OF ELECTRIFICATION AT 100VDC

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400VDC, RATED VOLTAGE										
VOLTAGE [V]		CAP <sup>(3)</sup>	DIMENSIONS [mm]					LEAD	CURRENT	ORDERING CODE
VDC	V-PEAK <sup>(1)</sup>	μF	W	H	L	P	d	AWG	I-PEAK <sup>(2)</sup> [A]	
400	560	1	15	24	32	27.5	0.8	20	250	BX5-040-152432-105-K
400	560	1.2	15	24	32	27.5	0.8	20	300	BX5-040-152432-125-K
400	560	1.5	18	33	32	27.5	0.8	20	375	BX5-040-183332-155-K
400	560	2	18	33	32	27.5	0.8	20	500	BX5-040-183332-205-K
400	560	2	17	28	42.5	37.5	1	18	500	BX5-040-172842-205-K
400	560	2.2	17	28	42.5	37.5	1	18	550	BX5-040-172842-225-K
400	560	2.5	17	28	42.5	37.5	1	18	625	BX5-040-172842-255-K
400	560	3	20	39.5	41.5	37.5	1	18	750	BX5-040-203941-305-K
400	560	3.3	20	39.5	41.5	37.5	1	18	429	BX5-040-203941-335-K
400	560	4	20	39.5	41.5	37.5	1	18	520	BX5-040-203941-405-K
400	560	4.7	20	39.5	41.5	37.5	1	18	611	BX5-040-203941-475-K
400	560	5	34	36	45	37.5	1	18	650	BX5-040-343645-505-K
400	560	5.5	34	36	45	37.5	1	18	715	BX5-040-343645-555-K
400	560	6	34	36	45	37.5	1	18	780	BX5-040-343645-605-K
400	560	6.8	34	36	45	37.5	1	18	612	BX5-040-343645-685-K
400	560	7.5	34	36	45	37.5	1	18	675	BX5-040-343645-755-K
400	560	8	34	45	45	37.5	1	18	720	BX5-040-344545-805-K
400	560	9	34	45	45	37.5	1	18	810	BX5-040-344545-905-K
400	560	10	42	47	45	37.5	1	18	900	BX5-040-424745-106-K
400	560	12	42	47	45	37.5	1	18	1080	BX5-040-424745-126-K
400	560	15	35	50	57	52.5	1.2	16	1350	BX5-040-355057-156-K
400	560	20	38	54	57	52.5	1.2	16	1800	BX5-040-385457-206-K
400	560	22	50	55	57	52.5	1.2	16	990	BX5-040-505557-226-K
400	560	25	50	55	57	52.5	1.2	16	1125	BX5-040-505557-256-K

\*\*CUSTOM CAPACITANCE AND THREAD TERMINALS ARE AVAILABLE  
(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 <sup>(3)</sup>	DIMENSIONS [mm]					LEAD	CURRENT	ORDERING CODE
VDC	V-PEAK <sup>(1)</sup>	μF	W	H	L	P	d	AWG	I-PEAK <sup>(2)</sup> [A]	
630	880	0.47	15	24	32	27.5	0.8	20	423	BX5-063-152432-474-K
630	880	0.68	15	24	32	27.5	0.8	20	612	BX5-063-152432-684-K
630	880	1	18	33	32	27.5	0.8	20	500	BX5-063-183332-105-K
630	880	1.2	18	33	32	27.5	0.8	20	600	BX5-063-183332-125-K
630	880	1.2	17	28	42.5	37.5	1	18	600	BX5-063-172842-125-K
630	880	1.5	17	28	42.5	37.5	1	18	750	BX5-063-172842-155-K
630	880	2	20	39.5	41.5	37.5	1	18	1000	BX5-063-203941-205-K
630	880	2.2	20	39.5	41.5	37.5	1	18	1100	BX5-063-203941-225-K
630	880	2.5	20	39.5	41.5	37.5	1	18	1250	BX5-063-203941-255-K
630	880	3	34	36	45	37.5	1	18	1500	BX5-063-343645-305-K
630	880	3.3	34	36	45	37.5	1	18	627	BX5-063-343645-335-K
630	880	4	34	36	45	37.5	1	18	760	BX5-063-343645-405-K
630	880	4.7	34	45	45	37.5	1	18	893	BX5-063-344545-475-K
630	880	5	34	45	45	37.5	1	18	950	BX5-063-344545-505-K
630	880	5.5	34	45	45	37.5	1	18	1045	BX5-063-344545-555-K
630	880	6	34	45	45	37.5	1	18	1140	BX5-063-344545-605-K
630	880	6.8	42	47	45	37.5	1	18	1088	BX5-063-424745-685-K
630	880	7.5	35	50	57	52.5	1.2	16	1200	BX5-063-355057-755-K
630	880	8	35	50	57	52.5	1.2	16	1280	BX5-063-355057-805-K
630	880	9	35	50	57	52.5	1.2	16	1440	BX5-063-355057-905-K
630	880	10	35	50	57	52.5	1.2	16	1600	BX5-063-355057-106-K
630	880	12	38	54	57	52.5	1.2	16	1920	BX5-063-385457-126-K
630	880	15	50	55	57	52.5	1.2	16	1350	BX5-063-505557-156-K

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850VDC, RATED VOLTAGE										
VOLTAGE [V]		CAP <sup>(3)</sup>	DIMENSIONS [mm]					LEAD	CURRENT	ORDERING CODE
VDC	V-PEAK <sup>(1)</sup>	μF	W	H	L	P	d	AWG	I-PEAK <sup>(2)</sup> [A]	
850	1200	0.22	15	24	32	27.5	0.8	20	396	BX5-085-152432-224-K
850	1200	0.33	15	24	32	27.5	0.8	20	380	BX5-085-152432-334-K
850	1200	0.47	18	33	32	27.5	0.8	20	541	BX5-085-183332-474-K
850	1200	0.68	18	33	32	27.5	0.8	20	782	BX5-085-183332-684-K
850	1200	0.68	17	28	42.5	37.5	1	18	782	BX5-085-172842-684-K
850	1200	1	20	39.5	41.5	37.5	1	18	500	BX5-085-203941-105-K
850	1200	1.2	20	39.5	41.5	37.5	1	18	600	BX5-085-203941-125-K
850	1200	1.5	20	39.5	41.5	37.5	1	18	750	BX5-085-203941-155-K
850	1200	2	34	36	45	37.5	1	18	1000	BX5-085-343645-205-K
850	1200	2.2	34	36	45	37.5	1	18	1100	BX5-085-343645-225-K
850	1200	2.5	34	36	45	37.5	1	18	1250	BX5-085-343645-255-K
850	1200	3	34	45	45	37.5	1	18	1500	BX5-085-344545-305-K
850	1200	3.3	34	45	45	37.5	1	18	759	BX5-085-344545-335-K
850	1200	4	42	47	45	37.5	1	18	920	BX5-085-424745-405-K
850	1200	4.7	35	50	57	52.5	1.2	16	1081	BX5-085-355057-475-K
850	1200	5	35	50	57	52.5	1.2	16	1150	BX5-085-355057-505-K
850	1200	5.5	35	50	57	52.5	1.2	16	1265	BX5-085-355057-555-K
850	1200	6	35	50	57	52.5	1.2	16	1380	BX5-085-355057-605-K
850	1200	6.8	38	54	57	52.5	1.2	16	1292	BX5-085-385457-685-K
850	1200	7.5	38	54	57	52.5	1.2	16	1425	BX5-085-385457-755-K
850	1200	8	50	55	57	52.5	1.2	16	800	BX5-085-505557-805-K
850	1200	9	50	55	57	52.5	1.2	16	900	BX5-085-505557-905-K

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1000VDC, RATED VOLTAGE										
VOLTAGE [V]		CAP <sup>(3)</sup>	DIMENSIONS [mm]					LEAD	CURRENT	ORDERING CODE
VDC	V-PEAK <sup>(1)</sup>	μF	W	H	L	P	d	AWG	I-PEAK <sup>(2)</sup> [A]	
1000	1400	0.15	15	24	32	27.5	0.8	20	270	BX5-100-152432-154-K
1000	1400	0.22	15	24	32	27.5	0.8	20	396	BX5-100-152432-224-K
1000	1400	0.33	18	33	32	27.5	0.8	20	380	BX5-100-183332-334-K
1000	1400	0.47	18	33	32	27.5	0.8	20	541	BX5-100-183332-474-K
1000	1400	0.47	17	28	42.5	37.5	1	18	541	BX5-100-172842-474-K
1000	1400	0.68	20	39.5	41.5	37.5	1	18	782	BX5-100-203941-684-K
1000	1400	1	20	39.5	41.5	37.5	1	18	500	BX5-100-203941-105-K
1000	1400	1.2	34	36	45	37.5	1	18	600	BX5-100-343645-125-K
1000	1400	1.5	34	36	45	37.5	1	18	750	BX5-100-343645-155-K
1000	1400	2	34	45	45	37.5	1	18	1000	BX5-100-344545-205-K
1000	1400	2.2	34	45	45	37.5	1	18	1100	BX5-100-344545-225-K
1000	1400	2.5	42	47	45	37.5	1	18	1250	BX5-100-424745-255-K
1000	1400	3	42	47	45	37.5	1	18	1500	BX5-100-424745-305-K
1000	1400	3.3	35	50	57	52.5	1.2	16	759	BX5-100-355057-335-K
1000	1400	4	35	50	57	52.5	1.2	16	920	BX5-100-355057-405-K
1000	1400	4.7	38	54	57	52.5	1.2	16	1081	BX5-100-385457-475-K
1000	1400	5	38	54	57	52.5	1.2	16	1150	BX5-100-385457-505-K
1000	1400	5.5	50	55	57	52.5	1.2	16	825	BX5-100-505557-555-K
1000	1400	6	50	55	57	52.5	1.2	16	900	BX5-100-505557-605-K

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1250VDC, RATED VOLTAGE										
VOLTAGE [V]		CAP <sup>(3)</sup>	DIMENSIONS [mm]					LEAD	CURRENT	ORDERING CODE
VDC	V-PEAK <sup>(1)</sup>	μF	W	H	L	P	d	AWG	I-PEAK <sup>(2)</sup> [A]	
1250	1750	0.1	15	24	32	27.5	0.8	20	180	BX5-125-152432-104-K
1250	1750	0.15	15	24	32	27.5	0.8	20	270	BX5-125-152432-154-K
1250	1750	0.22	18	33	32	27.5	0.8	20	396	BX5-125-183332-224-K
1250	1750	0.33	18	33	32	27.5	0.8	20	380	BX5-125-183332-334-K
1250	1750	0.47	20	39.5	41.5	37.5	1	18	541	BX5-125-203941-474-K
1250	1750	0.68	20	39.5	41.5	37.5	1	18	782	BX5-125-203941-684-K
1250	1750	1	34	36	45	37.5	1	18	500	BX5-125-343645-105-K
1250	1750	1.2	34	45	45	37.5	1	18	600	BX5-125-344545-125-K
1250	1750	1.5	34	45	45	37.5	1	18	750	BX5-125-344545-155-K
1250	1750	2	42	47	45	37.5	1	18	1000	BX5-125-424745-205-K
1250	1750	2.2	35	50	57	52.5	1.2	16	1100	BX5-125-355057-225-K
1250	1750	2.5	35	50	57	52.5	1.2	16	1250	BX5-125-355057-255-K
1250	1750	3	38	54	57	52.5	1.2	16	1500	BX5-125-385457-305-K
1250	1750	3.3	38	54	57	52.5	1.2	16	759	BX5-125-385457-335-K
1250	1750	4	50	55	57	52.5	1.2	16	920	BX5-125-505557-405-K

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1600VDC, RATED VOLTAGE										
VOLTAGE [V]		CAP <sup>(3)</sup>	DIMENSIONS [mm]					LEAD	CURRENT	ORDERING CODE
VDC	V-PEAK <sup>(1)</sup>	μF	W	H	L	P	d	AWG	I-PEAK <sup>(2)</sup> [A]	
1600	2250	0.068	15	24	32	27.5	0.8	20	122	BX5-160-152432-683-K
1600	2250	0.1	15	24	32	27.5	0.8	20	180	BX5-160-152432-104-K
1600	2250	0.15	15	24	32	27.5	0.8	20	270	BX5-160-152432-154-K
1600	2250	0.22	18	33	32	27.5	0.8	20	396	BX5-160-183332-224-K
1600	2250	0.33	17	28	42.5	37.5	1	18	380	BX5-160-172842-334-K
1600	2250	0.47	20	39.5	41.5	37.5	1	18	541	BX5-160-203941-474-K
1600	2250	0.68	34	36	45	37.5	1	18	782	BX5-160-343645-684-K
1600	2250	1	34	45	45	37.5	1	18	650	BX5-160-344545-105-K
1600	2250	1.2	42	47	45	37.5	1	18	780	BX5-160-424745-125-K
1600	2250	1.5	42	47	45	37.5	1	18	975	BX5-160-424745-155-K
1600	2250	2	35	50	57	52.5	1.2	16	1300	BX5-160-355057-205-K
1600	2250	2.2	38	54	57	52.5	1.2	16	1430	BX5-160-385457-225-K
1600	2250	2.5	38	54	57	52.5	1.2	16	1625	BX5-160-385457-255-K
1600	2250	3	50	55	57	52.5	1.2	16	990	BX5-160-505557-305-K
1600	2250	3.3	50	55	57	52.5	1.2	16	1089	BX5-160-505557-335-K

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2000VDC, RATED VOLTAGE										
VOLTAGE [V]		CAP <sup>(3)</sup>	DIMENSIONS [mm]					LEAD	CURRENT	ORDERING CODE
VDC	V-PEAK <sup>(1)</sup>	μF	W	H	L	P	d	AWG	I-PEAK <sup>(2)</sup> [A]	
2000	2800	0.047	15	24	32	27.5	0.8	20	127	BX5-200-152432-473-K
2000	2800	0.068	15	24	32	27.5	0.8	20	184	BX5-200-152432-683-K
2000	2800	0.1	15	24	32	27.5	0.8	20	180	BX5-200-152432-104-K
2000	2800	0.15	18	33	32	27.5	0.8	20	270	BX5-200-183332-154-K
2000	2800	0.22	17	28	42.5	37.5	1	18	396	BX5-200-172842-224-K
2000	2800	0.33	20	39.5	41.5	37.5	1	18	380	BX5-200-203941-334-K
2000	2800	0.47	34	36	45	37.5	1	18	541	BX5-200-343645-474-K
2000	2800	0.68	34	45	45	37.5	1	18	782	BX5-200-344545-684-K
2000	2800	1	42	47	45	37.5	1	18	650	BX5-200-424745-105-K
2000	2800	1.2	42	47	45	37.5	1	18	780	BX5-200-424745-125-K
2000	2800	1.5	35	50	57	52.5	1.2	16	975	BX5-200-355057-155-K
2000	2800	2	38	54	57	52.5	1.2	16	1300	BX5-200-385457-205-K
2000	2800	2.2	50	55	57	52.5	1.2	16	880	BX5-200-505557-225-K
2000	2800	2.5	50	55	57	52.5	1.2	16	1000	BX5-200-505557-255-K

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CUSTOM DESIGNS AVAILABLE



2500VDC, RATED VOLTAGE										
VOLTAGE [V]		CAP <sup>(3)</sup>	DIMENSIONS [mm]					LEAD	CURRENT	ORDERING CODE
VDC	V-PEAK <sup>(1)</sup>	μF	W	H	L	P	d	AWG	I-PEAK <sup>(2)</sup> [A]	
2500	3500	0.033	15	24	32	27.5	0.8	20	89	BX5-250-152432-333-K
2500	3500	0.047	15	24	32	27.5	0.8	20	127	BX5-250-152432-473-K
2500	3500	0.068	15	24	32	27.5	0.8	20	184	BX5-250-152432-683-K
2500	3500	0.1	18	33	32	27.5	0.8	20	180	BX5-250-183332-104-K
2500	3500	0.15	18	33	32	27.5	0.8	20	270	BX5-250-183332-154-K
2500	3500	0.22	20	39.5	41.5	37.5	1	18	396	BX5-250-203941-224-K
2500	3500	0.33	20	39.5	41.5	37.5	1	18	380	BX5-250-203941-334-K
2500	3500	0.47	34	45	45	37.5	1	18	541	BX5-250-344545-474-K
2500	3500	0.68	42	47	45	37.5	1	18	782	BX5-250-424745-684-K
2500	3500	1	35	50	57	52.5	1.2	16	650	BX5-250-355057-105-K
2500	3500	1.2	35	50	57	52.5	1.2	16	780	BX5-250-355057-125-K
2500	3500	1.5	38	54	57	52.5	1.2	16	975	BX5-250-385457-155-K
2500	3500	2	50	55	57	52.5	1.2	16	800	BX5-250-505557-205-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

# BX5

HIGH VOLTAGE DC CAPACITORS

HIGH VOLTAGE DOUBLE SIDED METALLIZED  
POLYPROPYLENE IN PLASTIC CASE AND EPOXY FILLING  
CUSTOM DESIGNS AVAILABLE



3000VDC, RATED VOLTAGE										
VOLTAGE [V]		CAP <sup>(3)</sup>	DIMENSIONS [mm]					LEAD	CURRENT	ORDERING CODE
VDC	V-PEAK <sup>(1)</sup>	μF	W	H	L	P	d	AWG	I-PEAK <sup>(2)</sup> [A]	
3000	4200	0.022	15	24	32	27.5	0.8	20	59	BX5-300-152432-223-K
3000	4200	0.033	15	24	32	27.5	0.8	20	89	BX5-300-152432-333-K
3000	4200	0.047	15	24	32	27.5	0.8	20	127	BX5-300-152432-473-K
3000	4200	0.068	18	33	32	27.5	0.8	20	184	BX5-300-183332-683-K
3000	4200	0.1	18	33	32	27.5	0.8	20	180	BX5-300-183332-104-K
3000	4200	0.15	20	39.5	41.5	37.5	1	18	270	BX5-300-203941-154-K
3000	4200	0.22	20	39.5	41.5	37.5	1	18	396	BX5-300-203941-224-K
3000	4200	0.33	34	45	45	37.5	1	18	380	BX5-300-344545-334-K
3000	4200	0.47	42	47	45	37.5	1	18	541	BX5-300-424745-474-K
3000	4200	0.68	35	50	57	52.5	1.2	16	782	BX5-300-355057-684-K
3000	4200	1	38	54	57	52.5	1.2	16	500	BX5-300-385457-105-K
3000	4200	1.2	50	55	57	52.5	1.2	16	420	BX5-300-505557-125-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

ALL INFORMATION ON THE FILE MAY CHANGE WITHOUT NOTICE

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