

VX7

HIGH VOLTAGE DC CAPACITORS

HIGH VOLTAGE METALLIZED POLYPROPYLENE TAPE WRAP
AND EPOXY FILLER CASE
CUSTOM DESIGNS AVAILABLE



MAIN CHARACTERISTICS:

- SELF-HEALING METALLIZED POLYPROPYLENE FILM
- TAPE WRAP CASE
- EPOXY RESIN FILLING

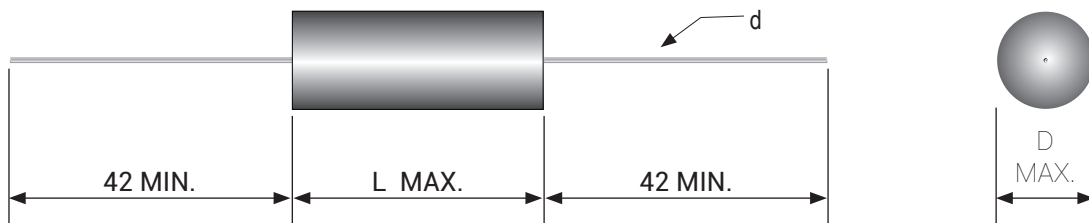


MAIN APPLICATIONS:

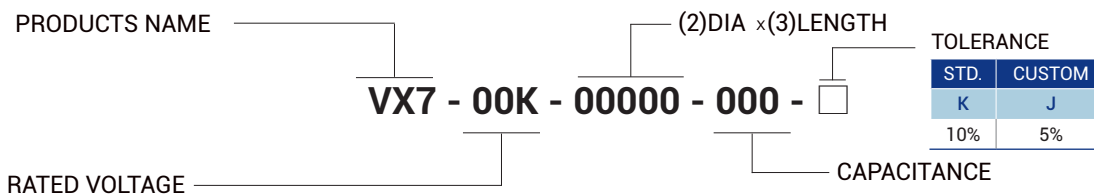
- HIGH VOLTAGE, POWER MEDIUM PULSE APPLICATIONS
- ENERGY CONVERSION AND CONTROL IN POWER SEMICONDUCTOR CIRCUITS
- SMPS, MOTOR SPEED CONTROLS



DIMENSIONS [mm]



ORDERING INFORMATION



ALL SPECIFICATIONS MAY CHANGE WITHOUT NOTICE

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SPECIFICATIONS

DC VOLTAGE RANGE	2000~30000 VDC
CAPACITANCE RANGE	UP TO 1 μ F
CAPACITANCE TOLERANCE (AT 1kHz)	STANDARD: \pm 10% ON REQUEST \pm 5%
EQUIVALENT SERIES RESISTANCE (ESR)	< 4.5 m Ω
MAXIMUM VOLTAGE RATE OF RISE(dV/dT)	\leq 700 V/ μ s
TERMINALS	TIN COPPER WIRE
VOLTAGE TEST	RATED VOLTAGE X 1.4 TIMES FOR 10 SECS
WORKING & STORAGE TEMPERATURE	-55 / +85 °C
CYLINDRICAL CASE AND FILLING	FLAME RETARDANT EPOXY RESIN FILL AND TAPE WRAP
PROTECTIVE MECHANISM	SELF HEALING
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 300,000M Ω , C > 0.33 μ F \geq 100,000 SEC (M Ω X μ F) AT 25 \pm °C, AFTER 1 MINUTE OF ELECTRIFICATION AT 500VDC

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2000VDC, RATED VOLTAGE								
VOLTAGE [V]		CAP ⁽³⁾	DIMENSIONS [mm]			LEAD	CURRENT	ORDERING CODE
VDC	V-PEAK ⁽¹⁾	μF	D MAX.	L	d	AWG	I-PEAK ⁽²⁾ [A]	
2000	2800	0.001	10	33	0.8	20	0.1	VX7-02K-10033-102-K
2000	2800	0.0015	10	33	0.8	20	0.2	VX7-02K-10033-152-K
2000	2800	0.0022	10	33	0.8	20	0.2	VX7-02K-10033-222-K
2000	2800	0.0033	10	33	0.8	20	0.4	VX7-02K-10033-332-K
2000	2800	0.0047	10	33	0.8	20	0.5	VX7-02K-10033-472-K
2000	2800	0.0068	10	33	0.8	20	0.7	VX7-02K-10033-682-K
2000	2800	0.01	11	33	0.8	20	1.1	VX7-02K-11033-103-K
2000	2800	0.015	13	33	0.8	20	1.7	VX7-02K-13033-153-K
2000	2800	0.022	14	33	0.8	20	2.4	VX7-02K-14033-223-K
2000	2800	0.033	16	33	0.8	20	3.6	VX7-02K-16033-333-K
2000	2800	0.047	20	33	0.8	20	5.2	VX7-02K-20033-473-K
2000	2800	0.068	16	49	0.8	20	2.3	VX7-02K-16049-683-K
2000	2800	0.1	18	49	0.8	20	3.3	VX7-02K-18049-104-K
2000	2800	0.15	21	49	0.8	20	5	VX7-02K-21049-154-K
2000	2800	0.22	24	49	0.8	20	7.3	VX7-02K-24049-224-K
2000	2800	0.33	27	49	0.8	20	11	VX7-02K-27049-334-K
2000	2800	0.47	33	49	0.8	20	15.6	VX7-02K-33049-474-K
2000	2800	0.68	39	49	0.8	20	22.6	VX7-02K-39049-684-K
2000	2800	1	47	49	0.8	20	33.2	VX7-02K-47049-105-K

**CAPACITANCE AND THREADS TERMINAL AVAILABLE AS CUSTOM.

(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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4000VDC, RATED VOLTAGE								
VOLTAGE [V]		CAP ⁽³⁾	DIMENSIONS [mm]			LEAD	CURRENT	ORDERING CODE
VDC	V-PEAK ⁽¹⁾	μF	D MAX.	L	d	AWG	I-PEAK ⁽²⁾ [A]	
4000	5600	0.001	10	33	0.8	20	0.2	VX7-04K-10033-102-K
4000	5600	0.0015	10	33	0.8	20	0.3	VX7-04K-10033-152-K
4000	5600	0.0022	10	33	0.8	20	0.5	VX7-04K-10033-222-K
4000	5600	0.0033	11	33	0.8	20	0.7	VX7-04K-11033-332-K
4000	5600	0.0047	12	33	0.8	20	1	VX7-04K-12033-472-K
4000	5600	0.0068	13	33	0.8	20	1.5	VX7-04K-13033-682-K
4000	5600	0.01	14	33	0.8	20	2.2	VX7-04K-14033-103-K
4000	5600	0.015	17	33	0.8	20	3.3	VX7-04K-17033-153-K
4000	5600	0.022	13	47	0.8	20	1.5	VX7-04K-13047-223-K
4000	5600	0.033	16	47	0.8	20	2.2	VX7-04K-16047-333-K
4000	5600	0.047	18	47	0.8	20	3.1	VX7-04K-18047-473-K
4000	5600	0.068	22	47	0.8	20	4.5	VX7-04K-22047-683-K
4000	5600	0.1	26	47	0.8	20	6.6	VX7-04K-26047-104-K
4000	5600	0.15	30	47	0.8	20	10	VX7-04K-30047-154-K
4000	5600	0.22	35	47	0.8	20	14.6	VX7-04K-35047-224-K
4000	5600	0.33	40	47	0.8	20	21.9	VX7-04K-40047-334-K
4000	5600	0.47	48	47	0.8	20	31.2	VX7-04K-48047-474-K

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6000VDC, RATED VOLTAGE								
VOLTAGE [V]		CAP ⁽³⁾	DIMENSIONS [mm]			LEAD	CURRENT	ORDERING CODE
VDC	V-PEAK ⁽¹⁾	μF	D MAX.	L	d	AWG	I-PEAK ⁽²⁾ [A]	
6000	8500	0.001	11	43	0.8	20	0.2	VX7-06K-11043-102-K
6000	8500	0.0015	12	43	0.8	20	0.3	VX7-06K-12043-152-K
6000	8500	0.0022	13	43	0.8	20	0.4	VX7-06K-13043-222-K
6000	8500	0.0033	13	43	0.8	20	0.6	VX7-06K-13043-332-K
6000	8500	0.0047	14	43	0.8	20	0.8	VX7-06K-14043-472-K
6000	8500	0.0068	15	43	0.8	20	1.2	VX7-06K-15043-682-K
6000	8500	0.01	17	43	0.8	20	1.7	VX7-06K-17043-103-K
6000	8500	0.015	19	43	0.8	20	2.6	VX7-06K-19043-153-K
6000	8500	0.022	22	43	0.8	20	3.8	VX7-06K-22043-223-K
6000	8500	0.033	18	68	0.8	20	3.4	VX7-06K-18068-333-K
6000	8500	0.047	22	68	0.8	20	4.8	VX7-06K-22068-473-K
6000	8500	0.068	26	68	0.8	20	6.9	VX7-06K-26068-683-K
6000	8500	0.1	30	68	0.8	20	10.2	VX7-06K-30068-104-K
6000	8500	0.15	36	68	0.8	20	15.3	VX7-06K-36068-154-K
6000	8500	0.22	43	68	0.8	20	22.4	VX7-06K-43068-224-K

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8000VDC, RATED VOLTAGE								
VOLTAGE [V]		CAP ⁽³⁾	DIMENSIONS [mm]			LEAD	CURRENT	ORDERING CODE
VDC	V-PEAK ⁽¹⁾	μF	D MAX.	L	d	AWG	I-PEAK ⁽²⁾ [A]	
8000	12000	0.001	12	52	0.8	20	0.2	VX7-08K-12052-102-K
8000	12000	0.0015	12	52	0.8	20	0.3	VX7-08K-12052-152-K
8000	12000	0.0022	13	52	0.8	20	0.5	VX7-08K-13052-222-K
8000	12000	0.0033	14	52	0.8	20	0.7	VX7-08K-14052-332-K
8000	12000	0.0047	15	52	0.8	20	1.1	VX7-08K-15052-472-K
8000	12000	0.0068	16	52	0.8	20	1.5	VX7-08K-16052-682-K
8000	12000	0.01	18	52	0.8	20	2.3	VX7-08K-18052-103-K
8000	12000	0.015	22	52	0.8	20	3.4	VX7-08K-22052-153-K
8000	12000	0.022	26	52	0.8	20	5	VX7-08K-26052-223-K
8000	12000	0.033	30	52	0.8	20	7.5	VX7-08K-30052-333-K
8000	12000	0.047	23	85	0.8	20	6.2	VX7-08K-23085-473-K
8000	12000	0.068	28	85	0.8	20	9	VX7-08K-28085-683-K
8000	12000	0.1	33	85	0.8	20	13.2	VX7-08K-33085-104-K
8000	12000	0.15	45	85	0.8	20	19.8	VX7-08K-45085-154-K

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10000VDC, RATED VOLTAGE								
VOLTAGE [V]		CAP ⁽³⁾	DIMENSIONS [mm]			LEAD	CURRENT	ORDERING CODE
VDC	V-PEAK ⁽¹⁾	μF	D MAX.	L	d	AWG	I-PEAK ⁽²⁾ [A]	
10000	14000	0.001	13	61	0.8	20	0.3	VX7-10K-13061-102-K
10000	14000	0.0015	13	61	0.8	20	0.5	VX7-10K-13061-152-K
10000	14000	0.0022	14	61	0.8	20	0.7	VX7-10K-14061-222-K
10000	14000	0.0033	15	61	0.8	20	1	VX7-10K-15061-332-K
10000	14000	0.0047	16	61	0.8	20	1.5	VX7-10K-16061-472-K
10000	14000	0.0068	18	61	0.8	20	2.1	VX7-10K-18061-682-K
10000	14000	0.01	21	61	0.8	20	3.2	VX7-10K-21061-103-K
10000	14000	0.015	24	61	0.8	20	4.7	VX7-10K-24061-153-K
10000	14000	0.022	28	61	0.8	20	7	VX7-10K-28061-223-K
10000	14000	0.033	24	100	0.8	20	5.6	VX7-10K-24100-333-K
10000	14000	0.047	27	100	0.8	20	8	VX7-10K-27100-473-K
10000	14000	0.068	34	100	0.8	20	11.6	VX7-10K-34100-683-K
10000	14000	0.1	41	100	0.8	20	17	VX7-10K-41100-104-K

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16000VDC, RATED VOLTAGE								
VOLTAGE [V]		CAP ⁽³⁾	DIMENSIONS [mm]			LEAD	CURRENT	ORDERING CODE
VDC	V-PEAK ⁽¹⁾	μF	D MAX.	L	d	AWG	I-PEAK ⁽²⁾ [A]	
16000	22000	0.001	15	81	0.8	20	0.5	VX7-16K-15081-102-K
16000	22000	0.0015	17	81	0.8	20	0.8	VX7-16K-17081-152-K
16000	22000	0.0022	18	81	0.8	20	1.1	VX7-16K-18081-222-K
16000	22000	0.0033	20	81	0.8	20	1.7	VX7-16K-20081-332-K
16000	22000	0.0047	22	81	0.8	20	2.4	VX7-16K-22081-472-K
16000	22000	0.0068	28	81	0.8	20	3.4	VX7-16K-28081-682-K
16000	22000	0.01	30	81	0.8	20	5	VX7-16K-30081-103-K
16000	22000	0.015	37	81	0.8	20	7.5	VX7-16K-37081-153-K
16000	22000	0.022	44	81	0.8	20	11	VX7-16K-44081-223-K
16000	22000	0.033	49	81	0.8	20	16.5	VX7-16K-49081-333-K

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20000VDC, RATED VOLTAGE								
VOLTAGE [V]		CAP ⁽³⁾	DIMENSIONS [mm]			LEAD	CURRENT	ORDERING CODE
VDC	V-PEAK ⁽¹⁾	μF	D MAX.	L	d	AWG	I-PEAK ⁽²⁾ [A]	
20000	28000	0.001	16	105	1.0	18	0.6	VX7-20K-16105-102-K
20000	28000	0.0015	17	105	1.0	18	0.9	VX7-20K-17105-152-K
20000	28000	0.0022	19	105	1.0	18	1.3	VX7-20K-19105-222-K
20000	28000	0.0033	23	105	1.0	18	2	VX7-20K-23105-332-K
20000	28000	0.0047	26	105	1.0	18	2.8	VX7-20K-26105-472-K
20000	28000	0.0068	30	105	1.0	18	4.1	VX7-20K30105682K
20000	28000	0.01	35	105	1.0	18	6	VX7-20K-35105-103-K
20000	28000	0.015	42	105	1.0	18	9	VX7-20K-42105-153-K
20000	28000	0.022	49	105	1.0	18	13.2	VX7-20K-49105-223-K

30000VDC, RATED VOLTAGE								
VOLTAGE [V]		CAP ⁽³⁾	DIMENSIONS [mm]			LEAD	CURRENT	ORDERING CODE
VDC	V-PEAK ⁽¹⁾	μF	D MAX.	L	d	AWG	I-PEAK ⁽²⁾ [A]	
30000	42000	0.001	19	145	1.0	18	0.7	VX7-30K-19145-102-K
30000	42000	0.0015	24	145	1.0	18	1.1	VX7-30K-24145-152-K
30000	42000	0.0022	26	145	1.0	18	1.5	VX7-30K-26145-222-K
30000	42000	0.0033	30	145	1.0	18	2.3	VX7-30K-30145-332-K
30000	42000	0.0047	33	145	1.0	18	3.3	VX7-30K-33145-472-K
30000	42000	0.0068	38	145	1.0	18	4.8	VX7-30K-38145-682-K
30000	42000	0.01	47	145	1.0	18	7	VX7-30K-47145-103-K

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(3) MEASURED AT 1kHz ±20Hz AT 25°C

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