

# VX3 HIGH VOLTAGE DC CAPACITORS



HIGH VOLTAGE METALLIZED POLYESTER & POLYPROPYLENE  
ENHANCED FREQUENCY CHARACTERISTIC

VOICE : +82-31-429-6379  
FAX : +82-31-429-9127  
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UPDATE : 2021-04-22



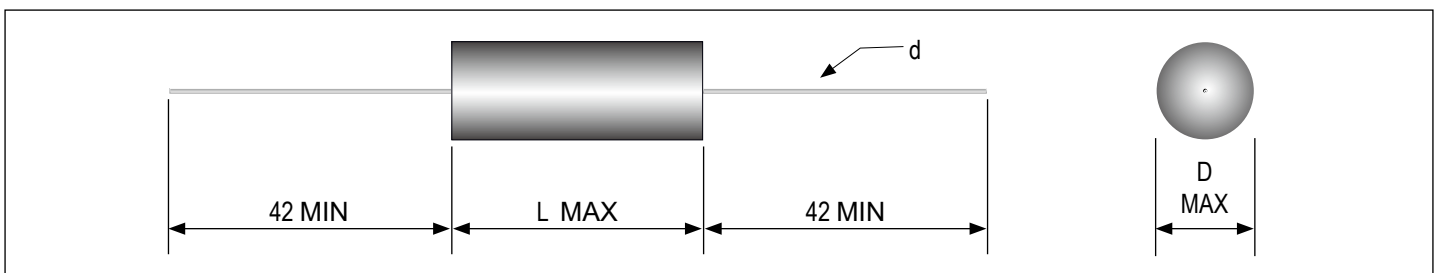
## MAIN CHARACTERISTICS:

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

## MAIN APPLICATIONS:

- HIGH VOLTAGE, POWER PULSE APPLICATIONS
- SNUBBER, CLAMPING, RESONANCE
- HIGH FREQUENCY PULSE AND BLOCKING

## DIEMENSION



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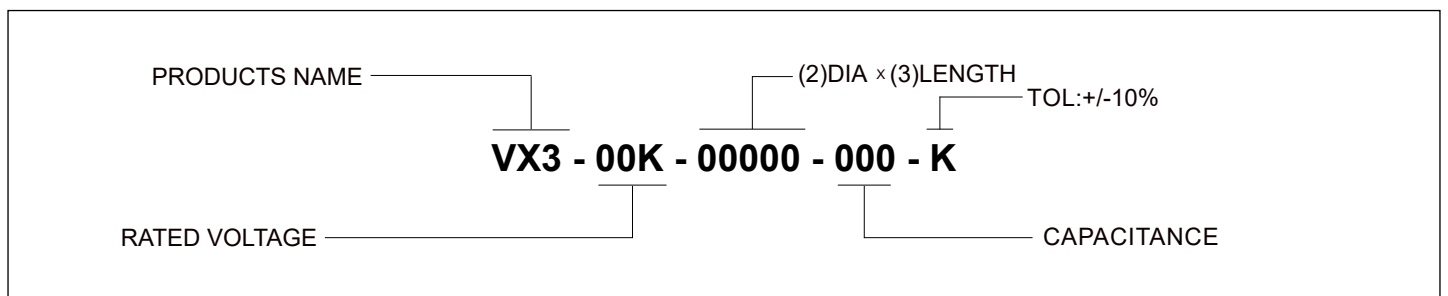


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<b>DC VOLTAGE RANGE</b>	2000~30000V
<b>CAPACITANCE RANGE</b>	UPTO 1 $\mu$ F
<b>CAPACITANCE TOLERANCE (+25°C)</b>	STANDARD: $\pm$ 10%. CUSTOM: $\pm$ 1%, $\pm$ 2%, $\pm$ 5%
<b>SERIES RESISTANCE</b>	< 4.5 m $\Omega$
<b>MAXIMUM VOLTAGE RATE OF RISE(dV/dT)</b>	$\leq$ 1000V/ $\mu$ S
<b>TERMINALS</b>	TINNED COPPER WIRE
<b>VOLTAGE TEST</b>	RATED VOLTAGE X 1.5 TIMES FOR 10 SECS
<b>WORKING TEMPERATURE</b>	-55 / +85 °C
<b>STORAGE TEMPERATURE</b>	-55 / +85 °C
<b>CYLINDRICAL CASE AND FILLING</b>	FLAME RETARDANT EPOXY RESIN FILL AND TAPE WRAP
<b>PROTECTIVE MECHANISM</b>	SELF HEALING
<b>LIFE EXPECTANCY</b>	100,000 HOURS TYP.
<b>SOLDERING HEAT TEST</b>	TEMPERATURE = 260 $\pm$ 5°C FOR 10SECS
<b>DISSIPATION FACTOR</b>	DF VALUE $\leq$ 1 % , MEASURED AT 25 $\pm$ 5°C, 1 kHz

## ORDERING INFORMATION



ALL OF SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRENOTICE.



## 2000VDC, RATED VOLTAGE

VOLTAGE AT +85°C		CAP <sup>(3)</sup>	DIMENSIONS[mm]			LEAD	CURRENT	ORDERING CODE
VDC [V]	V-PEAK <sup>(1)</sup> [V]	μF	D MAX	L	d	AWG	I-PEAK <sup>(2)</sup> [A]	
2000	2800	0.001	10	33	0.8	20	0.1	VX3-02K-10033-102-K
2000	2800	0.0015	10	33	0.8	20	0.2	VX3-02K-10033-152-K
2000	2800	0.0022	10	33	0.8	20	0.2	VX3-02K-10033-222-K
2000	2800	0.0033	10	33	0.8	20	0.4	VX3-02K-10033-332-K
2000	2800	0.0047	10	33	0.8	20	0.5	VX3-02K-10033-472-K
2000	2800	0.0068	10	33	0.8	20	0.7	VX3-02K-10033-682-K
2000	2800	0.01	11	33	0.8	20	1.1	VX3-02K-11033-103-K
2000	2800	0.015	12	33	0.8	20	1.7	VX3-02K-12033-153-K
2000	2800	0.022	14	33	0.8	20	2.4	VX3-02K-14033-223-K
2000	2800	0.033	16	33	0.8	20	3.6	VX3-02K-16033-333-K
2000	2800	0.047	19	33	0.8	20	5.2	VX3-02K-19033-473-K
2000	2800	0.068	15	49	0.8	20	2.3	VX3-02K-15049-683-K
2000	2800	0.1	17	49	0.8	20	3.3	VX3-02K-17049-104-K
2000	2800	0.15	20	49	0.8	20	5.0	VX3-02K-20049-154-K
2000	2800	0.22	23	49	0.8	20	7.3	VX3-02K-23049-224-K
2000	2800	0.33	26	49	0.8	20	11.0	VX3-02K-26049-334-K
2000	2800	0.47	32	49	0.8	20	15.6	VX3-02K-32049-474-K
2000	2800	0.68	39	49	0.8	20	22.6	VX3-02K-39049-684-K
2000	2800	1	46	49	0.8	20	33.2	VX3-02K-46049-105-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

## 4000VDC, RATED VOLTAGE

VOLTAGE AT +85°C		CAP <sup>(3)</sup>	DIMENSIONS[mm]			LEAD	CURRENT	ORDERING CODE
VDC [V]	V-PEAK <sup>(1)</sup> [V]	μF	D MAX	L	d	AWG	I-PEAK <sup>(2)</sup> [A]	
4000	5600	0.001	10	33	0.8	20	0.2	VX3-04K-10033-102-K
4000	5600	0.0015	10	33	0.8	20	0.3	VX3-04K-10033-152-K
4000	5600	0.0022	10	33	0.8	20	0.5	VX3-04K-10033-222-K
4000	5600	0.0033	11	33	0.8	20	0.7	VX3-04K-11033-332-K
4000	5600	0.0047	12	33	0.8	20	1.0	VX3-04K-12033-472-K
4000	5600	0.0068	13	33	0.8	20	1.5	VX3-04K-13033-682-K
4000	5600	0.01	14	33	0.8	20	2.2	VX3-04K-14033-103-K
4000	5600	0.015	16	33	0.8	20	3.3	VX3-04K-16033-153-K
4000	5600	0.022	13	47	0.8	20	1.5	VX3-04K-13047-223-K
4000	5600	0.033	15	47	0.8	20	2.2	VX3-04K-15047-333-K
4000	5600	0.047	18	47	0.8	20	3.1	VX3-04K-18047-473-K
4000	5600	0.068	21	47	0.8	20	4.5	VX3-04K-21047-683-K
4000	5600	0.1	25	47	0.8	20	6.6	VX3-04K-25047-104-K
4000	5600	0.15	29	47	0.8	20	10.0	VX3-04K-29047-154-K
4000	5600	0.22	34	47	0.8	20	14.6	VX3-04K-34047-224-K
4000	5600	0.33	39	47	0.8	20	21.9	VX3-04K-39047-334-K
4000	5600	0.47	41	47	0.8	20	31.2	VX3-04K-41047-474-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

## 6000VDC, RATED VOLTAGE

VOLTAGE AT +85°C		CAP <sup>(3)</sup>	DIMENSIONS[mm]			LEAD	CURRENT	ORDERING CODE
VDC [V]	V-PEAK <sup>(1)</sup> [V]	μF	D MAX	L	d	AWG	I-PEAK <sup>(2)</sup> [A]	
6000	8500	0.001	11	43	0.8	20	0.2	VX3-06K-11043-102-K
6000	8500	0.0015	12	43	0.8	20	0.3	VX3-06K-12043-152-K
6000	8500	0.0022	12	43	0.8	20	0.4	VX3-06K-12043-222-K
6000	8500	0.0033	13	43	0.8	20	0.6	VX3-06K-13043-332-K
6000	8500	0.0047	14	43	0.8	20	0.8	VX3-06K-14043-472-K
6000	8500	0.0068	15	43	0.8	20	1.2	VX3-06K-15043-682-K
6000	8500	0.01	17	43	0.8	20	1.7	VX3-06K-17043-103-K
6000	8500	0.015	18	43	0.8	20	2.6	VX3-06K-18043-153-K
6000	8500	0.022	21	43	0.8	20	3.8	VX3-06K-21043-223-K
6000	8500	0.033	20	68	0.8	20	3.4	VX3-06K-20068-333-K
6000	8500	0.047	22	68	0.8	20	4.8	VX3-06K-22068-473-K
6000	8500	0.068	25	68	0.8	20	6.9	VX3-06K-25068-683-K
6000	8500	0.1	29	68	0.8	20	10.2	VX3-06K-29068-104-K
6000	8500	0.15	34	68	0.8	20	15.3	VX3-06K-34068-154-K
6000	8500	0.22	39	68	0.8	20	22.4	VX3-06K-39068-224-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

## 8000VDC, RATED VOLTAGE

VOLTAGE AT +85°C		CAP <sup>(3)</sup>	DIMENSIONS[mm]			LEAD	CURRENT	ORDERING CODE
VDC [V]	V-PEAK <sup>(1)</sup> [V]	μF	D MAX	L	d	AWG	I-PEAK <sup>(2)</sup> [A]	
8000	12000	0.001	10	52	0.8	20	0.2	VX3-08K-10052-102-K
8000	12000	0.0015	11	52	0.8	20	0.3	VX3-08K-11052-152-K
8000	12000	0.0022	12	52	0.8	20	0.5	VX3-08K-12052-222-K
8000	12000	0.0033	12	52	0.8	20	0.7	VX3-08K-12052-332-K
8000	12000	0.0047	13	52	0.8	20	1.1	VX3-08K-13052-472-K
8000	12000	0.0068	15	52	0.8	20	1.5	VX3-08K-15052-682-K
8000	12000	0.01	18	52	0.8	20	2.3	VX3-08K-18052-103-K
8000	12000	0.015	21	52	0.8	20	3.4	VX3-08K-21052-153-K
8000	12000	0.022	25	52	0.8	20	5.0	VX3-08K-25052-223-K
8000	12000	0.033	29	52	0.8	20	7.5	VX3-08K-29052-333-K
8000	12000	0.047	23	52	0.8	20	6.2	VX3-08K-23052-473-K
8000	12000	0.068	27	85	0.8	20	9.0	VX3-08K-27085-683-K
8000	12000	0.1	33	85	0.8	20	13.2	VX3-08K-33085-104-K
8000	12000	0.15	37	85	0.8	20	19.8	VX3-08K-37085-154-K
8000	12000	0.22	44	85	0.8	20	29.0	VX3-08K-44085-224-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

## 10000VDC, RATED VOLTAGE

VOLTAGE AT +85°C		CAP <sup>(3)</sup>	DIMENSIONS[mm]			LEAD	CURRENT	ORDERING CODE
VDC [V]	V-PEAK <sup>(1)</sup> [V]	μF	D MAX	L	d	AWG	I-PEAK <sup>(2)</sup> [A]	
10000	14000	0.001	13	61	0.8	20	0.3	VX3-10K-13061-102-K
10000	14000	0.0015	13	61	0.8	20	0.5	VX3-10K-13061-152-K
10000	14000	0.0022	14	61	0.8	20	0.7	VX3-10K-14061-222-K
10000	14000	0.0033	14	61	0.8	20	1.0	VX3-10K-14061-332-K
10000	14000	0.0047	16	61	0.8	20	1.5	VX3-10K-16061-472-K
10000	14000	0.0068	17	61	0.8	20	2.1	VX3-10K-17061-682-K
10000	14000	0.01	20	61	0.8	20	3.2	VX3-10K-20061-103-K
10000	14000	0.015	23	61	0.8	20	4.7	VX3-10K-23061-153-K
10000	14000	0.022	27	61	0.8	20	7.0	VX3-10K-27061-223-K
10000	14000	0.033	23	100	0.8	20	5.6	VX3-10K-23100-333-K
10000	14000	0.047	28	100	0.8	20	8.0	VX3-10K-28100-473-K
10000	14000	0.068	34	100	0.8	20	11.6	VX3-10K-34100-683-K
10000	14000	0.1	39	100	0.8	20	17.0	VX3-10K-39100-104-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

## 16000VDC, RATED VOLTAGE

VOLTAGE AT +85°C		CAP <sup>(3)</sup>	DIMENSIONS[mm]			LEAD	CURRENT	ORDERING CODE
VDC [V]	V-PEAK <sup>(1)</sup> [V]	μF	D MAX	L	d	AWG	I-PEAK <sup>(2)</sup> [A]	
16000	22000	0.001	15	81	0.8	20	0.5	VX3-16K-15081-102-K
16000	22000	0.0015	17	81	0.8	20	0.8	VX3-16K-17081-152-K
16000	22000	0.0022	18	81	0.8	20	1.1	VX3-16K-18081-222-K
16000	22000	0.0033	20	81	0.8	20	1.7	VX3-16K-20081-332-K
16000	22000	0.0047	21	81	0.8	20	2.4	VX3-16K-21081-472-K
16000	22000	0.0068	26	81	0.8	20	3.4	VX3-16K-26081-682-K
16000	22000	0.01	29	81	0.8	20	5.0	VX3-16K-29081-103-K
16000	22000	0.015	34	81	0.8	20	7.5	VX3-16K-34081-153-K
16000	22000	0.022	40	81	0.8	20	11.0	VX3-16K-40081-223-K
16000	22000	0.033	46	81	0.8	20	16.5	VX3-16K-46081-333-K

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- (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



## 20000VDC, RATED VOLTAGE

VOLTAGE AT +85°C		CAP <sup>(3)</sup> μF	DIMENSIONS[mm]			LEAD AWG	CURRENT I-PEAK <sup>(2)</sup> [A]	ORDERING CODE
VDC [V]	V-PEAK <sup>(1)</sup> [V]		D MAX	L	d			
20000	28000	0.001	16	105	1	18	0.6	VX3-20K-16105-102-K
20000	28000	0.0015	17	105	1	18	0.9	VX3-20K-17105-152-K
20000	28000	0.0022	20	105	1	18	1.3	VX3-20K-20105-222-K
20000	28000	0.0033	23	105	1	18	2.0	VX3-20K-23105-332-K
20000	28000	0.0047	27	105	1	18	2.8	VX3-20K-27105-472-K
20000	28000	0.0068	29	105	1	18	6.0	VX3-20K-29105-682-K
20000	28000	0.01	30	105	1	18	6.0	VX3-20K-30105-103-K
20000	28000	0.015	34	105	1	18	9.0	VX3-20K-34105-153-K
20000	28000	0.022	41	105	1	18	13.2	VX3-20K-41105-223-K

## 30000VDC, RATED VOLTAGE

30000	42000	0.001	19	145	1	18	0.7	VX3-30K-19145-102-K
30000	42000	0.0015	23	145	1	18	1.1	VX3-30K-23145-152-K
30000	42000	0.0022	25	145	1	18	1.5	VX3-30K-25145-222-K
30000	42000	0.0033	29	145	1	18	2.3	VX3-30K-29145-332-K
30000	42000	0.0047	32	145	1	18	3.3	VX3-30K-32145-472-K
30000	42000	0.0068	37	145	1	18	4.8	VX3-30K-37145-682-K
30000	42000	0.01	46	145	1	18	7.0	VX3-30K-46145-103-K

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(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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