

VX5

HIGH VOLTAGE DC CAPACITORS

HIGH VOLTAGE METALLIZED POLYESTER TAPE WRAP
AND EPOXY FILL CASE
CUSTOM DESIGNS AVAILABLE



MAIN FEATURES:

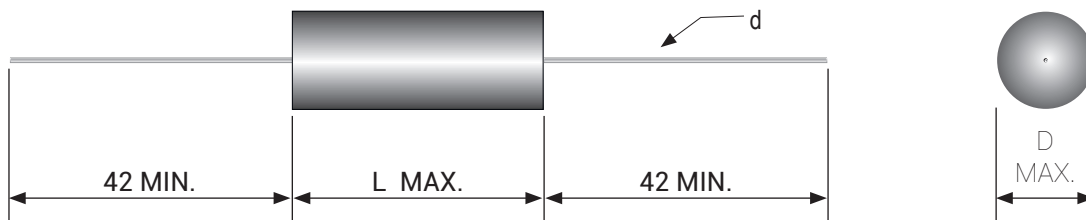
- NON-INDUCTIVE WOUND METALLIZED POLYESTER FLIM
- TAPE WRAP CASE
- EPOXY RESIN FILLING

MAIN APPLICATIONS:

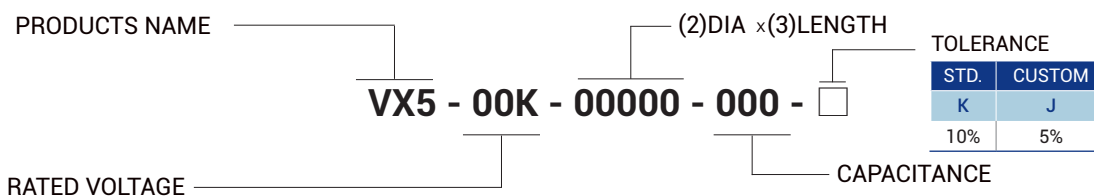
- HIGH VOLTAGE, MEDIUM PULSE APPLICATIONS
- ENERGY CONVERSION AND CONTROL
IN POWER SEMICONDUCTOR CIRCUITS
- SMPS, MOTOR SPEED CONTROLS



DIENSIONS [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 1 %, MEASURED AT 25 \pm 5°C, 1 kHz
INSULATION RESISTANCE (RINS)	C \leq 0.33 μ F \geq 25,000M Ω , C > 0.33 μ F \geq 10,000 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	VX5-02K-10033-102-K
2000	2800	0.0015	10	33	0.8	20	0.2	VX5-02K-10033-152-K
2000	2800	0.0022	10	33	0.8	20	0.2	VX5-02K-10033-222-K
2000	2800	0.0033	10	33	0.8	20	0.4	VX5-02K-10033-332-K
2000	2800	0.0047	10	33	0.8	20	0.5	VX5-02K-10033-472-K
2000	2800	0.0068	10	33	0.8	20	0.7	VX5-02K-10033-682-K
2000	2800	0.01	10	33	0.8	20	1.1	VX5-02K-10033-103-K
2000	2800	0.015	12	33	0.8	20	1.7	VX5-02K-12033-153-K
2000	2800	0.022	13	33	0.8	20	2.4	VX5-02K-13033-223-K
2000	2800	0.033	15	33	0.8	20	3.6	VX5-02K-15033-333-K
2000	2800	0.047	19	33	0.8	20	5.2	VX5-02K-19033-473-K
2000	2800	0.068	15	49	0.8	20	2.3	VX5-02K-15049-683-K
2000	2800	0.1	16	49	0.8	20	3.3	VX5-02K-16049-104-K
2000	2800	0.15	20	49	0.8	20	5	VX5-02K-20049-154-K
2000	2800	0.22	23	49	0.8	20	7.3	VX5-02K-23049-224-K
2000	2800	0.33	26	49	0.8	20	11	VX5-02K-26049-334-K
2000	2800	0.47	32	49	0.8	20	15.6	VX5-02K-32049-474-K
2000	2800	0.68	38	49	0.8	20	22.6	VX5-02K-38049-684-K
2000	2800	1	46	49	0.8	20	33	VX5-02K-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

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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	VX5-04K-10033-102-K
4000	5600	0.0015	10	33	0.8	20	0.3	VX5-04K-10033-152-K
4000	5600	0.0022	10	33	0.8	20	0.5	VX5-04K-10033-222-K
4000	5600	0.0033	11	33	0.8	20	0.7	VX5-04K-11033-332-K
4000	5600	0.0047	12	33	0.8	20	1.0	VX5-04K-12033-472-K
4000	5600	0.0068	13	33	0.8	20	1.5	VX5-04K-13033-682-K
4000	5600	0.01	14	33	0.8	20	2.2	VX5-04K-14033-103-K
4000	5600	0.015	15	33	0.8	20	3.3	VX5-04K-15033-153-K
4000	5600	0.022	13	47	0.8	20	1.5	VX5-04K-13047-223-K
4000	5600	0.033	14	47	0.8	20	2.2	VX5-04K-14047-333-K
4000	5600	0.047	17	47	0.8	20	3.1	VX5-04K-17047-473-K
4000	5600	0.068	20	47	0.8	20	4.5	VX5-04K-20047-683-K
4000	5600	0.1	24	47	0.8	20	6.6	VX5-04K-24047-104-K
4000	5600	0.15	28	47	0.8	20	10	VX5-04K-28047-154-K
4000	5600	0.22	33	47	0.8	20	14.6	VX5-04K-33047-224-K
4000	5600	0.33	38	47	0.8	20	21.9	VX5-04K-38047-334-K
4000	5600	0.47	42	47	0.8	20	31.2	VX5-04K-42047-474-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	VX5-06K-11043-102-K
6000	8500	0.0015	11	43	0.8	20	0.3	VX5-06K-11043-152-K
6000	8500	0.0022	12	43	0.8	20	0.4	VX5-06K-12043-222-K
6000	8500	0.0033	12	43	0.8	20	0.6	VX5-06K-12043-332-K
6000	8500	0.0047	13	43	0.8	20	0.8	VX5-06K-13043-472-K
6000	8500	0.0068	14	43	0.8	20	1.2	VX5-06K-14043-682-K
6000	8500	0.01	15	43	0.8	20	1.7	VX5-06K-15043-103-K
6000	8500	0.015	17	43	0.8	20	2.6	VX5-06K-17043-153-K
6000	8500	0.022	20	43	0.8	20	3.8	VX5-06K-20043-223-K
6000	8500	0.033	17	68	0.8	20	3.4	VX5-06K-17068-333-K
6000	8500	0.047	19	68	0.8	20	4.8	VX5-06K-19068-473-K
6000	8500	0.068	23	68	0.8	20	6.9	VX5-06K-23068-683-K
6000	8500	0.1	27	68	0.8	20	10	VX5-06K-27068-104-K
6000	8500	0.15	31	68	0.8	20	15.3	VX5-06K-31068-154-K
6000	8500	0.22	36	68	0.8	20	22.4	VX5-06K-36068-224-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	10	52	0.8	20	0.2	VX5-08K-10052-102-K
8000	12000	0.0015	10	52	0.8	20	0.3	VX5-08K-10052-152-K
8000	12000	0.0022	10	52	0.8	20	0.5	VX5-08K-10052-222-K
8000	12000	0.0033	11	52	0.8	20	0.7	VX5-08K-11052-332-K
8000	12000	0.0047	12	52	0.8	20	1.1	VX5-08K-12052-472-K
8000	12000	0.0068	14	52	0.8	20	1.5	VX5-08K-14052-682-K
8000	12000	0.01	17	52	0.8	20	2.3	VX5-08K-17052-103-K
8000	12000	0.015	20	52	0.8	20	3.4	VX5-08K-20052-153-K
8000	12000	0.022	24	52	0.8	20	5	VX5-08K-24052-223-K
8000	12000	0.033	28	52	0.8	20	7.5	VX5-08K-28052-333-K
8000	12000	0.047	22	81	0.8	20	6.2	VX5-08K-22081-473-K
8000	12000	0.068	26	81	0.8	20	9	VX5-08K-26081-683-K
8000	12000	0.1	32	81	0.8	20	13.2	VX5-08K-32081-104-K
8000	12000	0.15	36	81	0.8	20	20	VX5-08K-36081-154-K
8000	12000	0.22	43	81	0.8	20	29	VX5-08K-43081-224-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	12	61	0.8	20	0.3	VX5-10K-12061-102-K
10000	14000	0.0015	12	61	0.8	20	0.5	VX5-10K-12061-152-K
10000	14000	0.0022	13	61	0.8	20	0.7	VX5-10K-13061-222-K
10000	14000	0.0033	14	61	0.8	20	1	VX5-10K-14061-332-K
10000	14000	0.0047	15	61	0.8	20	1.5	VX5-10K-15061-472-K
10000	14000	0.0068	16	61	0.8	20	2.1	VX5-10K-16061-682-K
10000	14000	0.01	19	61	0.8	20	3.2	VX5-10K-19061-103-K
10000	14000	0.015	23	61	0.8	20	4.7	VX5-10K-23061-153-K
10000	14000	0.022	27	61	0.8	20	7	VX5-10K-27061-223-K
10000	14000	0.033	22	100	0.8	20	5.6	VX5-10K-22100-333-K
10000	14000	0.047	26	100	0.8	20	8	VX5-10K-26100-473-K
10000	14000	0.068	31	100	0.8	20	11.6	VX5-10K-31100-683-K
10000	14000	0.1	36	100	0.8	20	17	VX5-10K-36100-104-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	14	81	0.8	20	0.5	VX5-16K-14081-102-K
16000	22000	0.0015	16	81	0.8	20	0.7	VX5-16K-16081-152-K
16000	22000	0.0022	17	81	0.8	20	1	VX5-16K-17081-222-K
16000	22000	0.0033	18	81	0.8	20	1.5	VX5-16K-18081-332-K
16000	22000	0.0047	21	81	0.8	20	2.2	VX5-16K-21081-472-K
16000	22000	0.0068	27	81	0.8	20	3.2	VX5-16K-27081-682-K
16000	22000	0.01	30	81	0.8	20	4.6	VX5-16K-30081-103-K
16000	22000	0.015	36	81	0.8	20	7	VX5-16K-36081-153-K
16000	22000	0.022	42	81	0.8	20	10.2	VX5-16K-42081-223-K
16000	22000	0.033	46	81	0.8	20	15.3	VX5-16K-46081-333-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	13	105	1	18	0.6	VX5-20K-13105-102-K
20000	28000	0.0015	15	105	1	18	0.9	VX5-20K-15105-152-K
20000	28000	0.0022	17	105	1	18	1.3	VX5-20K-17105-222-K
20000	28000	0.0033	20	105	1	18	2	VX5-20K-20105-332-K
20000	28000	0.0047	23	105	1	18	2.8	VX5-20K-23105-472-K
20000	28000	0.0068	26	105	1	18	4.1	VX5-20K-26105-682-K
20000	28000	0.01	31	105	1	18	6	VX5-20K-31105-103-K
20000	28000	0.015	37	105	1	18	9	VX5-20K-37105-153-K
20000	28000	0.022	45	105	1	18	13	VX5-20K-45105-223-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	18	145	1	18	0.7	VX5-30K-18145-102-K
30000	42000	0.0015	22	145	1	18	1.1	VX5-30K-22145-152-K
30000	42000	0.0022	24	145	1	18	1.5	VX5-30K-24145-222-K
30000	42000	0.0033	28	145	1	18	2.3	VX5-30K-28145-332-K
30000	42000	0.0047	31	145	1	18	3.3	VX5-30K-31145-472-K
30000	42000	0.0068	36	145	1	18	4.8	VX5-30K-36145-682-K
30000	42000	0.01	45	145	1	18	7	VX5-30K-45145-103-K

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(3) MEASURED AT 1kHz ±20Hz AT 25°C

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