

VX9

HIGH VOLTAGE DC CAPACITORS

HIGH VOLTAGE METALLIZED POLYPROPYLENE TAPE WRAP AND EPOXY FILL CASE
CUSTOM DESIGN AVAILABLE.



MAIN CHARACTERISTICS:

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

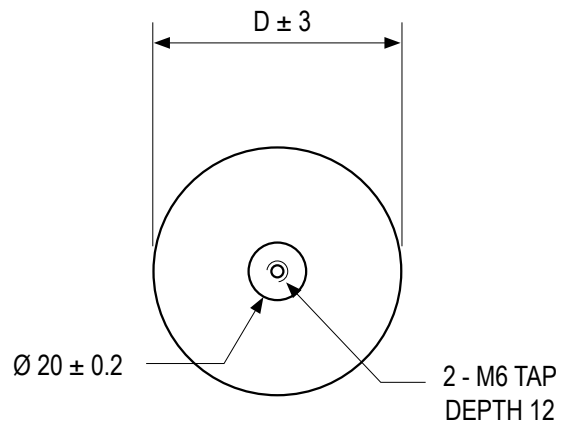
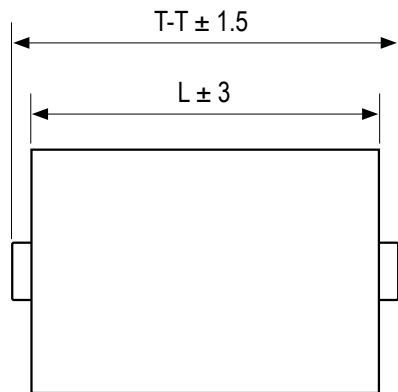


MAIN APPLICATIONS:

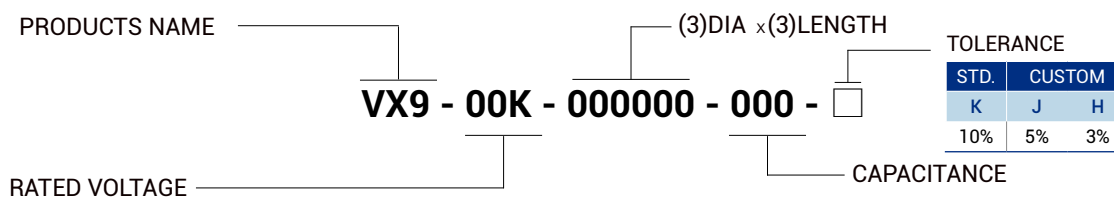
- HIGH VOLTAGE, MEDIUM PULSE APPLICATIONS
- ENERGY CONVERSION AND CONTROL IN POWER SEMICONDUCTOR CIRCUITS
- SMPS, MOTOR SPEED CONTROLS



DIEMENSIONS



ORDERING INFORMATION



All of specifications Subject to change without prenotice.

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SPECIFICATIONS

DC VOLTAGE RANGE	2000~30000 V
CAPACITANCE RANGE	UP TO 8 μ F
CAPACITANCE TOLERANCE (AT 1kHz)	STANDARD: \pm 10% ON REQUEST \pm 3, 5%
EQUIVALENT SERIES RESISTANCE (ESR)	< 4.5 m Ω
MAXIMUM VOLTAGE RATE OF RISE(dV/dT)	\leq 800 V/ μ s
TERMINALS	M6
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.
M6 SCREW TERMINALS	MAX 6 NM
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]			TERMINAL	CURRENT	ORDERING CODE
VDC	V-PEAK ⁽¹⁾	μF	D MAX	L	T - T		I-PEAK ⁽²⁾ [kA]	
2000	2800	1.2000	50	82.5	92.5	M6	132.00	VX9-02K-050082-125-K
2000	2800	1.5000	54	82.5	92.5	M6	165.00	VX9-02K-054082-155-K
2000	2800	2.0000	61	82.5	92.5	M6	220.00	VX9-02K-061082-205-K
2000	2800	2.2000	64	82.5	92.5	M6	242.00	VX9-02K-064082-225-K
2000	2800	2.5000	68	82.5	92.5	M6	275.00	VX9-02K-068082-255-K
2000	2800	3.0000	73	82.5	92.5	M6	330.00	VX9-02K-073082-305-K
2000	2800	3.3000	76	82.5	92.5	M6	363.00	VX9-02K-076082-335-K
2000	2800	3.5000	78	82.5	92.5	M6	385.00	VX9-02K-078082-355-K
2000	2800	3.7000	80	82.5	92.5	M6	407.00	VX9-02K-080082-375-K
2000	2800	4.0000	83	82.5	92.5	M6	440.00	VX9-02K-083082-405-K
2000	2800	4.5000	88	82.5	92.5	M6	495.00	VX9-02K-088082-455-K
2000	2800	5.0000	92	82.5	92.5	M6	550.00	VX9-02K-092082-505-K
2000	2800	6.0000	100	82.5	92.5	M6	660.00	VX9-02K-100082-605-K
2000	2800	7.0000	108	82.5	92.5	M6	770.00	VX9-02K-108082-705-K
2000	2800	8.0000	115	82.5	92.5	M6	880.00	VX9-02K-115082-805-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]			TERMINAL	CURRENT	ORDERING CODE
VDC	V-PEAK ⁽¹⁾	μF	D MAX	L	T - T		I-PEAK ⁽²⁾ [kA]	
4000	5600	0.4700	53	82.5	92.5	M6	103.40	VX9-04K-053082-474-K
4000	5600	0.6800	62	82.5	92.5	M6	149.60	VX9-04K-062082-684-K
4000	5600	1.0000	74	82.5	92.5	M6	220.00	VX9-04K-074082-105-K
4000	5600	1.2000	81	82.5	92.5	M6	264.00	VX9-04K-081082-125-K
4000	5600	1.5000	89	82.5	92.5	M6	330.00	VX9-04K-089082-155-K
4000	5600	2.0000	102	82.5	92.5	M6	440.00	VX9-04K-102082-205-K
4000	5600	2.2000	107	82.5	92.5	M6	484.00	VX9-04K-107082-225-K
4000	5600	2.5000	114	82.5	92.5	M6	550.00	VX9-04K-114082-255-K

6000VDC, RATED VOLTAGE								
VOLTAGE		CAP ⁽³⁾	DIMENSIONS[mm]			TERMINAL	CURRENT	ORDERING CODE
VDC [V]	V-PEAK ⁽¹⁾ [V]	μF	D MAX	L	T - T		I-PEAK ⁽²⁾ [kA]	
6000	8500	0.3300	54	102.5	112.5	M6	57.75	VX9-06K-054102-334-K
6000	8500	0.4700	63	102.5	112.5	M6	82.25	VX9-06K-063102-474-K
6000	8500	0.6800	74	102.5	112.5	M6	119.00	VX9-06K-074102-684-K
6000	8500	1.0000	88	102.5	112.5	M6	175.00	VX9-06K-088102-105-K
6000	8500	1.2000	96	102.5	112.5	M6	210.00	VX9-06K-096102-125-K
6000	8500	1.5000	108	102.5	112.5	M6	262.50	VX9-06K-108102-155-K
6000	8500	2.0000	123	102.5	112.5	M6	350.00	VX9-06K-123102-205-K

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(3) MEASURED AT 1kHz ±20HZ AT 25°C

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8000VDC, RATED VOLTAGE								
VOLTAGE [V]		CAP ⁽³⁾	DIMENSIONS[mm]			TERMINAL	CURRENT	ORDERING CODE
VDC	V-PEAK ⁽¹⁾	μF	D MAX	L	T - T		I-PEAK ⁽²⁾ [kA]	
8000	12000	0.1500	49	109.5	119.5	M6	33.00	VX9-08K-049109-154-K
8000	12000	0.2200	57	109.5	119.5	M6	48.40	VX9-08K-057109-224-K
8000	12000	0.3300	68	109.5	119.5	M6	72.60	VX9-08K-068109-334-K
8000	12000	0.4700	80	109.5	119.5	M6	103.40	VX9-08K-080109-474-K
8000	12000	0.6800	95	109.5	119.5	M6	149.60	VX9-08K-095109-684-K
8000	12000	1.0000	114	109.5	119.5	M6	220.00	VX9-08K-114109-105-K

10000VDC, RATED VOLTAGE								
VOLTAGE		CAP ⁽³⁾	DIMENSIONS[mm]			TERMINAL	CURRENT	ORDERING CODE
VDC [V]	V-PEAK ⁽¹⁾ [V]	μF	D MAX	L	T - T		I-PEAK ⁽²⁾ [kA]	
10000	14000	0.1000	51	109.5	119.5	M6	30.00	VX9-10K-051109-104-K
10000	14000	0.1500	60	109.5	119.5	M6	45.00	VX9-10K-060109-154-K
10000	14000	0.2200	71	109.5	119.5	M6	66.00	VX9-10K-071109-224-K
10000	14000	0.3300	88	109.5	119.5	M6	99.00	VX9-10K-088109-334-K
10000	14000	0.4700	101	109.5	119.5	M6	141.00	VX9-10K-101109-474-K
10000	14000	0.6800	121	109.5	119.5	M6	204.00	VX9-10K-121109-684-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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16000VDC, RATED VOLTAGE								
VOLTAGE [V]		CAP ⁽³⁾	DIMENSIONS[mm]			TERMINAL	CURRENT	ORDERING CODE
VDC	V-PEAK ⁽¹⁾	μF	D MAX	L	T - T		I-PEAK ⁽²⁾ [kA]	
16000	22000	0.0330	52	137.5	147.5	M6	16.50	VX9-16K-052137-333-K
16000	22000	0.0470	61	137.5	147.5	M6	23.50	VX9-16K-061137-473-K
16000	22000	0.0680	71	137.5	147.5	M6	34.00	VX9-16K-071137-683-K
16000	22000	0.1000	85	137.5	147.5	M6	50.00	VX9-16K-085137-104-K
16000	22000	0.1500	102	137.5	147.5	M6	75.00	VX9-16K-102137-154-K
16000	22000	0.2200	122	137.5	147.5	M6	110.00	VX9-16K-122137-224-K

20000VDC, RATED VOLTAGE								
VOLTAGE		CAP ⁽³⁾	DIMENSIONS[mm]			TERMINAL	CURRENT	ORDERING CODE
VDC [V]	V-PEAK ⁽¹⁾ [V]	μF	D MAX	L	T - T		I-PEAK ⁽²⁾ [kA]	
20000	28000	0.0220	52	137.5	147.5	M6	13.20	VX9-20K-052137-223-K
20000	28000	0.0330	61	137.5	147.5	M6	19.80	VX9-20K-061137-333-K
20000	28000	0.0470	71	137.5	147.5	M6	28.20	VX9-20K-071137-473-K
20000	28000	0.0680	84	137.5	147.5	M6	40.80	VX9-20K-084137-683-K
20000	28000	0.1000	100	137.5	147.5	M6	60.00	VX9-20K-100137-104-K
20000	28000	0.1500	121	137.5	147.5	M6	90.00	VX9-20K-121137-154-K

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(3) MEASURED AT 1kHz ±20HZ AT 25°C

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30000VDC, RATED VOLTAGE								
VOLTAGE [V]		CAP ⁽³⁾	DIMENSIONS[mm]			TERMINAL	CURRENT	ORDERING CODE
VDC	V-PEAK ⁽¹⁾	μF	D MAX	L	T - T		I-PEAK ⁽²⁾ [kA]	
30000	42000	0.0100	49	174.5	184.5	M6	7.00	VX9-30K-049174-103-K
30000	42000	0.0150	58	174.5	184.5	M6	10.50	VX9-30K-058174-153-K
30000	42000	0.0220	68	174.5	184.5	M6	15.40	VX9-30K-068174-223-K
30000	42000	0.0330	80	174.5	184.5	M6	23.10	VX9-30K-080174-333-K
30000	42000	0.0470	94	174.5	184.5	M6	32.90	VX9-30K-094174-473-K
30000	42000	0.0680	113	174.5	184.5	M6	47.60	VX9-30K-113174-683-K

50000VDC, RATED VOLTAGE								
VOLTAGE [V]		CAP ⁽³⁾	DIMENSIONS[mm]			TERMINAL	CURRENT	ORDERING CODE
VDC	V-PEAK ⁽¹⁾	μF	D MAX	L	T - T		I-PEAK ⁽²⁾ [kA]	
50000	65000	0.0047	59	192.5	202.5	M6	3.76	VX9-50K-059192-472-K
50000	65000	0.0068	69	192.5	202.5	M6	5.44	VX9-50K-069192-682-K
50000	65000	0.0100	82	192.5	202.5	M6	8.00	VX9-50K-082192-103-K
50000	65000	0.0150	98	192.5	202.5	M6	12.00	VX9-50K-098192-153-K
50000	65000	0.0220	118	192.5	202.5	M6	17.60	VX9-50K-118043-223-K

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(3) MEASURED AT 1kHz ±20HZ AT 25°C

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