

VX3 HIGH VOLTAGE DC CAPACITORS



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

VOICE : +82-31-429-6379
FAX : +82-31-429-9127
E-MAIL : info@3RLab.com
UPDATE : 2021-10-14



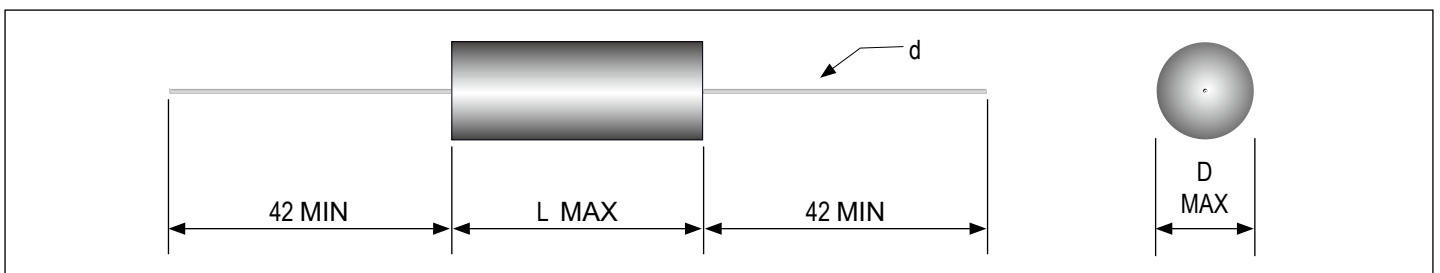
MAIN CHARACTERISTICS:

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

MAIN APPLICATIONS:

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

DIEMENSION



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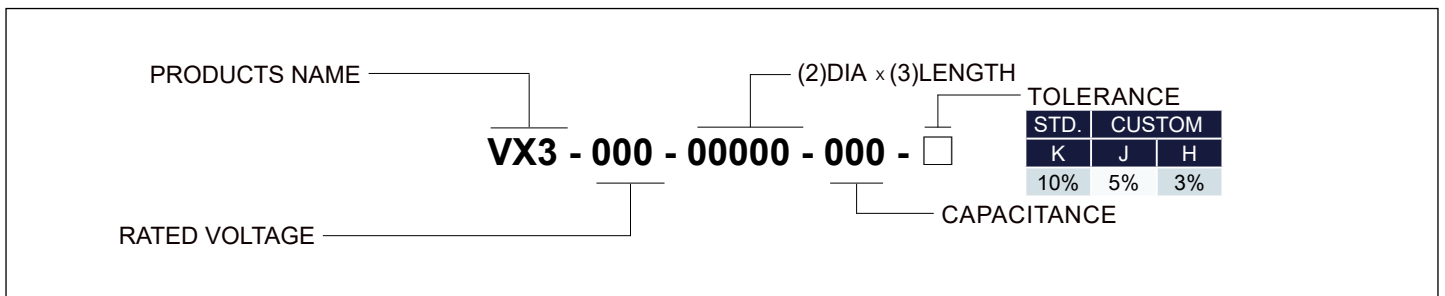


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DC VOLTAGE RANGE	700~3000 VDC
CAPACITANCE RANGE	UP TO 10 μ F
CAPACITANCE TOLERANCE (AT 1kHz)	STANDARD: \pm 10% ON REQUEST \pm 3,5%
EQUIVALENT SERIES RESISTANCE (ESR)	< 4.5 m Ω
MAXIMUM VOLTAGE RATE OF RISE(dV/dT)	\leq 1000 V/ μ s
TERMINALS	TINNED COPPER WIRE
VOLTAGE TEST	RATED VOLTAGE X 1.5 TIMES FOR 10 SECS
WORKING & STORAGE TEMPERATURE	-55 / +85 $^{\circ}$ 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 $^{\circ}$ C FOR 10SECS
DISSIPATION FACTOR (MAX) 25 $^{\circ}$ C	DF VALUE \leq 1 % , MEASURED AT 25 \pm 5 $^{\circ}$ C, 1 kHz.

ORDERING INFORMATION



ALL OF SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRENOTICE.



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700VDC, RATED VOLTAGE

VOLTAGE AT +85°C		CAP ⁽³⁾	DIMENSIONS[mm]			LEAD	CURRENT	ORDERING CODE
VDC [V]	V-PEAK ⁽¹⁾ [V]	μF	D MAX	L	d	AWG	I-PEAK ⁽²⁾ [A]	
700	1100	0.15	12	30	0.8	20	35.2	VX3-070-012030-154-K
700	1100	0.22	13	30	0.8	20	51.7	VX3-070-013030-224-K
700	1100	0.33	15	30	0.8	20	77.5	VX3-070-015030-334-K
700	1100	0.33	13	35	0.8	20	61	VX3-070-013035-334-K
700	1100	0.47	17.5	30	0.8	20	110.4	VX3-070-017030-474-K
700	1100	0.47	15	35	0.8	20	87	VX3-070-015035-474-K
700	1100	0.68	17.5	35	1	18	126	VX3-070-017035-684-K
700	1100	1	21	35	1	18	185	VX3-070-021035-105-K
700	1100	1	17.5	47	1	18	130	VX3-070-017047-105-K
700	1100	1.5	25	35	1	18	277	VX3-070-025035-155-K
700	1100	1.5	21	47	1	18	195	VX3-070-021047-155-K
700	1100	2	24	47	1	18	260	VX3-070-024047-205-K
700	1100	2.2	25	47	1	18	286	VX3-070-025047-225-K
700	1100	2.5	26.5	47	1.2	16	325	VX3-070-026047-255-K
700	1100	3	29	47	1.2	16	390	VX3-070-029047-305-K
700	1100	3.3	30	47	1.2	16	429	VX3-070-030047-335-K
700	1100	3.3	25	60	1.2	16	297	VX3-070-025060-335-K
700	1100	4	32.5	47	1.2	16	520	VX3-070-032047-405-K
700	1100	4	27	60	1.2	16	360	VX3-070-027060-405-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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700VDC, RATED VOLTAGE

VOLTAGE AT +85°C		CAP ⁽³⁾	DIMENSIONS[mm]			LEAD	CURRENT	ORDERING CODE
VDC [V]	V-PEAK ⁽¹⁾ [V]	μF	D MAX	L	d	AWG	I-PEAK ⁽²⁾ [A]	
700	1100	4.7	29	60	1.2	16	423	VX3-070-29060-475-K
700	1100	5	30	60	1.2	16	450	VX3-070-30060-505-K
700	1100	6.8	34.5	60	1.2	16	612	VX3-070-34060-685-K
700	1100	8.2	38	60	1.2	16	738	VX3-070-38060-825-K
700	1100	10	41.5	60	1.2	16	900	VX3-070-41060-106-K

850VDC, RATED VOLTAGE

850	1300	0.1	12	30	0.8	20	37.5	VX3-085-12030-104-K
850	1300	0.15	13	30	0.8	20	56.2	VX3-085-13030-154-K
850	1300	0.15	12	35	0.8	20	45	VX3-085-12035-154-K
850	1300	0.22	15	30	0.8	20	82.5	VX3-085-15030-224-K
850	1300	0.22	13.5	35	0.8	20	65	VX3-085-13035-224-K
850	1300	0.33	17.5	30	0.8	20	123.7	VX3-085-17030-334-K
850	1300	0.33	16	35	0.8	20	99	VX3-085-16035-334-K
850	1300	0.47	18.5	35	1	18	141	VX3-085-18035-474-K
850	1300	0.68	21.5	35	1	18	204	VX3-085-21035-684-K
850	1300	0.68	18	47	1	18	136	VX3-085-18047-684-K
850	1300	1	26	35	1.2	16	300	VX3-085-26035-105-K
850	1300	1	21.5	47	1	18	200	VX3-085-21047-105-K
850	1300	1.5	25.5	47	1.2	16	300	VX3-085-25047-155-K

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850VDC, RATED VOLTAGE

VOLTAGE AT +85°C		CAP ⁽³⁾ μF	DIMENSIONS[mm]			LEAD AWG	CURRENT I-PEAK ⁽²⁾ [A]	ORDERING CODE
VDC [V]	V-PEAK ⁽¹⁾ [V]		D MAX	L	d			
850	1300	2	29	47	1.2	16	400	VX3-085-29047-205-K
850	1300	2.2	30	47	1.2	16	440	VX3-085-30047-225-K
850	1300	2.2	25	60	1.2	16	242	VX3-085-25060-225-K
850	1300	2.5	32	47	1.2	16	500	VX3-085-32047-255-K
850	1300	2.5	26.5	60	1.2	16	275	VX3-085-26060-255-K
850	1300	3	35.5	47	1.2	16	600	VX3-085-35047-305-K
850	1300	3	29	60	1.2	16	330	VX3-085-29060-305-K
850	1300	3.3	30	60	1.2	16	363	VX3-085-30060-335-K
850	1300	4	33	60	1.2	16	440	VX3-085-33060-405-K
850	1300	4.7	35.5	60	1.2	16	517	VX3-085-35060-475-K
850	1300	5	36.5	60	1.2	16	550	VX3-085-36060-505-K
850	1300	6.8	41.5	60	1.2	16	748	VX3-085-41060-685-K

1000VDC, RATED VOLTAGE

1000	1550	0.068	12	30	0.8	20	28.9	VX3-100-12030-683-K
1000	1550	0.1	13	30	0.8	20	42.5	VX3-100-13030-104-K
1000	1550	0.15	15	30	0.8	20	63.7	VX3-100-15030-154-K
1000	1550	0.15	13	35	0.8	20	51	VX3-100-13035-154-K
1000	1550	0.22	17	30	0.8	20	93.5	VX3-100-17030-224-K
1000	1550	0.22	15	35	0.8	20	74.8	VX3-100-15035-224-K

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VDC [V]	V-PEAK ⁽¹⁾ [V]	μF	D MAX	L	d	AWG	I-PEAK ⁽²⁾ [A]	
1000	1550	0.33	17.5	35	1	18	112.2	VX3-100-17035-334-K
1000	1550	0.47	21	35	1	18	159.8	VX3-100-21035-474-K
1000	1550	0.47	17.5	47	1	18	105.7	VX3-100-17047-474-K
1000	1550	0.68	24.5	35	1	18	231.2	VX3-100-24035-684-K
1000	1550	0.68	20.5	47	1	18	153	VX3-100-20047-684-K
1000	1550	1	24.5	47	1.2	16	225	VX3-100-24047-105-K
1000	1550	1.5	29.5	47	1.2	16	337.5	VX3-100-29047-155-K
1000	1550	1.5	24.5	60	1.2	16	202.5	VX3-100-24060-155-K
1000	1550	2	33	47	1.2	16	450	VX3-100-33047-205-K
1000	1550	2	27.5	60	1.2	16	270	VX3-100-27060-205-K
1000	1550	2.2	28.5	60	1.2	16	297	VX3-100-28060-225-K
1000	1550	2.5	31	60	1.2	16	337.5	VX3-100-31060-255-K
1000	1550	3	33	60	1.2	16	405	VX3-100-33060-305-K
1000	1550	3.3	34.5	60	1.2	16	445.5	VX3-100-34060-335-K
1000	1550	4	38	60	1.2	16	540	VX3-100-38060-405-K
1000	1550	4.7	40.5	60	1.2	16	634.5	VX3-100-40060-475-K
1000	1550	5	43	60	1.2	16	675	VX3-100-43060-505-K

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1200VDC, RATED VOLTAGE

VOLTAGE AT +85°C		CAP ⁽³⁾	DIMENSIONS[mm]			LEAD	CURRENT	ORDERING CODE
VDC [V]	V-PEAK ⁽¹⁾ [V]	μF	D MAX	L	d	AWG	I-PEAK ⁽²⁾ [A]	
1200	1750	0.047	12	30	0.8	20	22.5	VX3-120-12030-473-K
1200	1750	0.068	13	30	0.8	20	32.6	VX3-120-13030-683-K
1200	1750	0.1	15	30	0.8	20	48	VX3-120-15030-104-K
1200	1750	0.1	13	35	0.8	20	39	VX3-120-13035-104-K
1200	1750	0.15	18	30	0.8	20	72.7	VX3-120-18030-154-K
1200	1750	0.15	15	35	0.8	20	58.5	VX3-120-15035-154-K
1200	1750	0.22	18	35	0.8	20	85.8	VX3-120-18035-224-K
1200	1750	0.33	21	35	1	18	128.7	VX3-120-21035-334-K
1200	1750	0.33	18	47	1	18	84.2	VX3-120-18047-334-K
1200	1750	0.47	24	35	1	18	183.3	VX3-120-24035-474-K
1200	1750	0.47	21	47	1	18	119.8	VX3-120-21047-474-K
1200	1750	0.68	24	47	1	18	173.4	VX3-120-24047-684-K
1200	1750	1	28	47	1.2	16	255	VX3-120-28047-105-K
1200	1750	1.2	31	47	1.2	16	306	VX3-120-31047-125-K
1200	1750	1.5	34	47	1.2	16	382.5	VX3-120-34047-155-K
1200	1750	1.5	28	60	1.2	16	225	VX3-120-28060-155-K
1200	1750	2	32	60	1.2	16	300	VX3-120-32060-205-K
1200	1750	2.2	33	60	1.2	16	330	VX3-120-33060-225-K
1200	1750	2.5	35	60	1.2	16	375	VX3-120-35060-255-K

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VDC [V]	V-PEAK ⁽¹⁾ [V]	μF	D MAX	L	d	AWG	I-PEAK ⁽²⁾ [A]	
1200	1750	3	38	60	1.2	16	450	VX3-120-38060-305-K
1200	1750	3.3	40	60	1.2	16	495	VX3-120-40060-335-K

1500VDC, RATED VOLTAGE

1500	2200	0.033	12	30	0.8	20	20.1	VX3-150-12030-333-K
1500	2200	0.047	13	30	0.8	20	28.6	VX3-150-13030-473-K
1500	2200	0.068	14.5	30	0.8	20	41.5	VX3-150-14030-683-K
1500	2200	0.068	12.5	35	0.8	20	33.3	VX3-150-12035-683-K
1500	2200	0.1	17.5	30	0.8	20	61	VX3-150-17030-104-K
1500	2200	0.1	14.5	35	0.8	20	49	VX3-150-14035-104-K
1500	2200	0.15	17.5	35	1	18	73.5	VX3-150-17035-154-K
1500	2200	0.22	20.5	35	1	18	107.8	VX3-150-20035-224-K
1500	2200	0.22	17	47	1	18	70.4	VX3-150-17047-224-K
1500	2200	0.33	24.5	35	1	18	161.7	VX3-150-24035-334-K
1500	2200	0.33	20.5	47	1	18	105.6	VX3-150-20047-334-K
1500	2200	0.47	24	47	1.2	16	150	VX3-150-24047-474-K
1500	2200	0.68	28	47	1.2	16	217.6	VX3-150-28047-684-K
1500	2200	1	33.5	47	1.2	16	320	VX3-150-33047-105-K
1500	2200	1	28	60	1.2	16	175	VX3-150-28060-105-K
1500	2200	1.2	30	60	1.2	16	210	VX3-150-30060-125-K

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VDC [V]	V-PEAK ⁽¹⁾ [V]	μF	D MAX	L	d	AWG	I-PEAK ⁽²⁾ [A]	
1500	2200	1.5	33.5	60	1.2	16	262.5	VX3-150-33060-155-K
1500	2200	2	38	60	1.2	16	350	VX3-150-38060-205-K
1500	2200	2.2	40	60	1.2	16	385	VX3-150-40060-225-K

2000VDC, RATED VOLTAGE

2000	2600	0.022	13	30	0.8	20	17.8	VX3-200-13030-223-K
2000	2600	0.033	15	30	0.8	20	26.7	VX3-200-15030-333-K
2000	2600	0.047	17	30	0.8	20	38	VX3-200-17030-473-K
2000	2600	0.047	15	35	0.8	20	30.5	VX3-200-15035-473-K
2000	2600	0.068	19	30	0.8	20	55.1	VX3-200-19030-683-K
2000	2600	0.068	17	35	0.8	20	44.2	VX3-200-17035-683-K
2000	2600	0.1	20	35	0.8	20	65	VX3-200-20035-104-K
2000	2600	0.15	21.5	35	1	18	97.5	VX3-200-21035-154-K
2000	2600	0.15	19	47	1	18	61.5	VX3-200-19047-154-K
2000	2600	0.22	28	35	1	18	143	VX3-200-28035-224-K
2000	2600	0.22	22	47	1	18	90.2	VX3-200-22047-224-K
2000	2600	0.33	26	47	1.2	16	135.3	VX3-200-26047-334-K
2000	2600	0.47	31	47	1.2	16	192.7	VX3-200-31047-474-K
2000	2600	0.68	36	47	1.2	16	278.8	VX3-200-36047-684-K
2000	2600	0.68	31	60	1.2	16	153	VX3-200-31060-684-K

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VDC [V]	V-PEAK ⁽¹⁾ [V]	μF	D MAX	L	d	AWG	I-PEAK ⁽²⁾ [A]	
2000	2600	1	37	60	1.2	16	225	VX3-200-37060-105-K
2000	2600	1.3	41	60	1.2	16	292.5	VX3-200-41060-135-K
2000	2600	1.5	44	60	1.2	16	337.5	VX3-200-44060-155-K

2500VDC, RATED VOLTAGE

2500	3300	0.01	12	30	0.8	20	10.5	VX3-250-12030-103-K
2500	3300	0.015	13	30	0.8	20	15.7	VX3-250-13030-153-K
2500	3300	0.022	15	30	0.8	20	23.1	VX3-250-15030-223-K
2500	3300	0.033	17.5	30	0.8	20	34.6	VX3-250-17030-333-K
2500	3300	0.033	15	35	0.8	20	28.7	VX3-250-15035-333-K
2500	3300	0.047	17	35	0.8	20	40.9	VX3-250-17035-473-K
2500	3300	0.068	19	35	0.8	20	59.2	VX3-250-19035-683-K
2500	3300	0.1	23	35	1	18	87	VX3-250-23035-104-K
2500	3300	0.1	19	47	1	18	55	VX3-250-19047-104-K
2500	3300	0.15	24	35	1	18	130.5	VX3-250-24035-154-K
2500	3300	0.15	22	47	1	18	82.5	VX3-250-22047-154-K
2500	3300	0.22	26	47	1.2	16	121	VX3-250-26047-224-K
2500	3300	0.33	31	47	1.2	16	181.5	VX3-250-31047-334-K
2500	3300	0.33	26	60	1.2	16	92.4	VX3-250-26060-334-K
2500	3300	0.47	36	47	1.2	16	258.5	VX3-250-36047-474-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

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

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E-MAIL : info@3RLab.com
UPDATE : 2021-10-14

2500VDC, RATED VOLTAGE

VOLTAGE AT +85°C		CAP ⁽³⁾	DIMENSIONS[mm]			LEAD	CURRENT	ORDERING CODE
VDC [V]	V-PEAK ⁽¹⁾ [V]	μF	D MAX	L	d	AWG	I-PEAK ⁽²⁾ [A]	
2500	3300	0.47	30	60	1.2	16	131.6	VX3-250-30060-474-K
2500	3300	0.68	36	60	1.2	16	190.4	VX3-250-36060-684-K
2500	3300	0.82	39	60	1.2	16	229.6	VX3-250-39060-824-K
2500	3300	1	43	60	1.2	16	280	VX3-250-43060-105-K

3000VDC, RATED VOLTAGE

3000	4000	0.0068	12	30	0.8	20	10.2	VX3-300-12030-682-K
3000	4000	0.01	14	30	0.8	20	15	VX3-300-14030-103-K
3000	4000	0.01	12	35	0.8	20	12	VX3-300-12035-103-K
3000	4000	0.015	16	30	0.8	20	22.5	VX3-300-16030-153-K
3000	4000	0.015	14	35	0.8	20	18	VX3-300-14035-153-K
3000	4000	0.022	15.5	35	0.8	20	26.4	VX3-300-15035-223-K
3000	4000	0.033	18	35	0.8	20	39.6	VX3-300-18035-333-K
3000	4000	0.047	21	35	1	18	56.4	VX3-300-21035-473-K
3000	4000	0.068	25	35	1	18	81.6	VX3-300-25035-683-K
3000	4000	0.068	20	47	1	18	51	VX3-300-20047-683-K
3000	4000	0.1	23.5	47	1	18	75	VX3-300-23047-104-K
3000	4000	0.15	28	47	1.2	16	112.5	VX3-300-28047-154-K
3000	4000	0.22	34	47	1.2	16	165	VX3-300-34047-224-K
3000	4000	0.22	28.5	60	1.2	16	81.4	VX3-300-28060-224-K

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3000VDC, RATED VOLTAGE

VOLTAGE AT +85°C		CAP ⁽³⁾	DIMENSIONS[mm]			LEAD	CURRENT	ORDERING CODE
VDC [V]	V-PEAK ⁽¹⁾ [V]	μF	D MAX	L	d	AWG	I-PEAK ⁽²⁾ [A]	
3000	4000	0.33	33.5	60	1.2	16	122.1	VX3-300-33060-334-K
3000	4000	0.47	39	60	1.2	16	173.9	VX3-300-39060-474-K
3000	4000	0.56	42	60	1.2	16	207.2	VX3-300-42060-564-K

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ALL INFORMATION ON THIS FILE IS SUBJECT TO CHANGE WITHOUT PRE-NOTICE.