

VX9

HIGH VOLTAGE DC CAPACITORS

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



MAIN FEATURES:

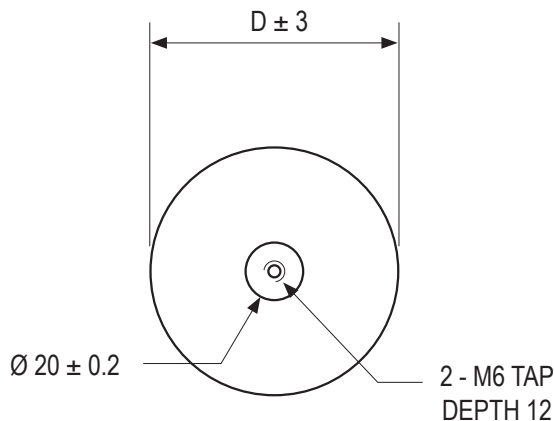
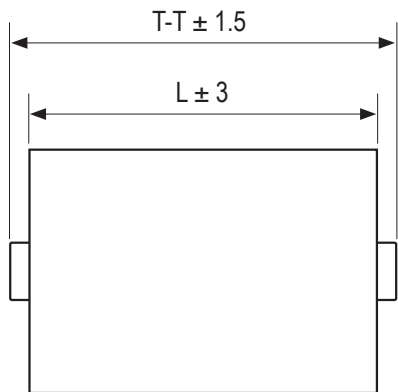
- SELF-HEALING METALLIZED POLYPROPYLENE FILM
- TAPE WRAP CASE
- EPOXY RESIN FILLING

MAIN APPLICATIONS:

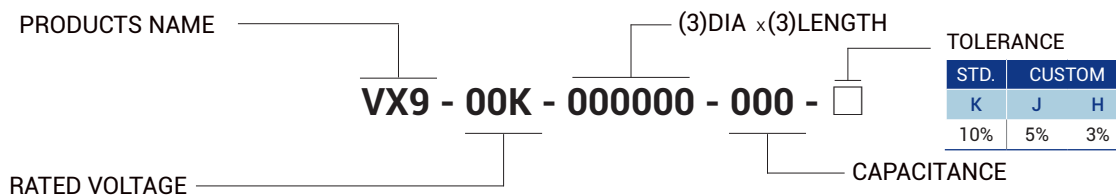
- HIGH VOLTAGE, MEDIUM PULSE APPLICATIONS
- ENERGY CONVERSION AND CONTROL
IN POWER SEMICONDUCTOR CIRCUITS
- SMPS, MOTOR SPEED CONTROLS



DIMENSIONS [mm]



ORDERING INFORMATION



ALL SPECIFICATIONS MAY CHANGE WITHOUT NOTICE

VX9

HIGH VOLTAGE DC CAPACITORS

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



SPECIFICATIONS

DC VOLTAGE RANGE	2000~50000 VDC
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 TAP DEPTH 12mm
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 FILLER AND TAPE WRAP
PROTECTIVE MECHANISM	SELF HEALING
LIFE EXPECTANCY	100,000 HOURS TYP.
M6 SCREW TERMINALS	MAX. 6 N·m
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

VX9

HIGH VOLTAGE DC CAPACITORS

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



2000VDC, RATED VOLTAGE								
VOLTAGE [V]		CAP ⁽³⁾	DIMENSIONS [mm]			TERMINAL	CURRENT	ORDERING CODE
VDC	V-PEAK ⁽¹⁾	μF	D	L	T - T		I-PEAK ⁽²⁾ [A]	
2000	2800	1.2	50	82.5	92.5	M6	132	VX9-02K-050082-125-K
2000	2800	1.5	54	82.5	92.5	M6	165	VX9-02K-054082-155-K
2000	2800	2	61	82.5	92.5	M6	220	VX9-02K-061082-205-K
2000	2800	2.2	64	82.5	92.5	M6	242	VX9-02K-064082-225-K
2000	2800	2.5	68	82.5	92.5	M6	275	VX9-02K-068082-255-K
2000	2800	3	73	82.5	92.5	M6	330	VX9-02K-073082-305-K
2000	2800	3.3	76	82.5	92.5	M6	363	VX9-02K-076082-335-K
2000	2800	3.5	78	82.5	92.5	M6	385	VX9-02K-078082-355-K
2000	2800	3.7	80	82.5	92.5	M6	407	VX9-02K-080082-375-K
2000	2800	4	83	82.5	92.5	M6	440	VX9-02K-083082-405-K
2000	2800	4.5	88	82.5	92.5	M6	495	VX9-02K-088082-455-K
2000	2800	5	92	82.5	92.5	M6	550	VX9-02K-092082-505-K
2000	2800	6	100	82.5	92.5	M6	660	VX9-02K-100082-605-K
2000	2800	7	108	82.5	92.5	M6	770	VX9-02K-108082-705-K
2000	2800	8	115	82.5	92.5	M6	880	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

VX9

HIGH VOLTAGE DC CAPACITORS

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



4000VDC, RATED VOLTAGE								
VOLTAGE [V]		CAP ⁽³⁾	DIMENSIONS [mm]			TERMINAL	CURRENT	ORDERING CODE
VDC	V-PEAK ⁽¹⁾	μF	D	L	T - T		I-PEAK ⁽²⁾ [A]	
4000	5600	0.47	53	82.5	92.5	M6	103	VX9-04K-053082-474-K
4000	5600	0.68	62	82.5	92.5	M6	150	VX9-04K-062082-684-K
4000	5600	1	74	82.5	92.5	M6	220	VX9-04K-074082-105-K
4000	5600	1.2	81	82.5	92.5	M6	264	VX9-04K-081082-125-K
4000	5600	1.5	89	82.5	92.5	M6	330	VX9-04K-089082-155-K
4000	5600	2	102	82.5	92.5	M6	440	VX9-04K-102082-205-K
4000	5600	2.2	107	82.5	92.5	M6	484	VX9-04K-107082-225-K
4000	5600	2.5	114	82.5	92.5	M6	550	VX9-04K-114082-255-K

6000VDC, RATED VOLTAGE								
VOLTAGE [V]		CAP ⁽³⁾	DIMENSIONS [mm]			TERMINAL	CURRENT	ORDERING CODE
VDC	V-PEAK ⁽¹⁾	μF	D	L	T - T		I-PEAK ⁽²⁾ [A]	
6000	8500	0.33	54	102.5	112.5	M6	58	VX9-06K-054102-334-K
6000	8500	0.47	63	102.5	112.5	M6	82	VX9-06K-063102-474-K
6000	8500	0.68	74	102.5	112.5	M6	119	VX9-06K-074102-684-K
6000	8500	1	88	102.5	112.5	M6	175	VX9-06K-088102-105-K
6000	8500	1.2	96	102.5	112.5	M6	210	VX9-06K-096102-125-K
6000	8500	1.5	108	102.5	112.5	M6	263	VX9-06K-108102-155-K
6000	8500	2	123	102.5	112.5	M6	350	VX9-06K-123102-205-K

**CUSTOM CAPACITANCE AND THREAD TERMINALS ARE AVAILABLE
(1) NON-REPETITIVE PEAK VOLTAGE LESS THAN 00ms TYP.
(2) NON-REPETITIVE PEAK CURRENT LESS THAN 00ms TYP.
(3) MEASURED AT 1kHz ±20Hz AT 25°C

VX9

HIGH VOLTAGE DC CAPACITORS

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



8000VDC, RATED VOLTAGE								
VOLTAGE [V]		CAP ⁽³⁾	DIMENSIONS [mm]			TERMINAL	CURRENT	ORDERING CODE
VDC	V-PEAK ⁽¹⁾	μF	D	L	T - T		I-PEAK ⁽²⁾ [A]	
8000	12000	0.15	49	109.5	119.5	M6	33	VX9-08K-049109-154-K
8000	12000	0.22	57	109.5	119.5	M6	48	VX9-08K-057109-224-K
8000	12000	0.33	68	109.5	119.5	M6	73	VX9-08K-068109-334-K
8000	12000	0.47	80	109.5	119.5	M6	103	VX9-08K-080109-474-K
8000	12000	0.68	95	109.5	119.5	M6	150	VX9-08K-095109-684-K
8000	12000	1	114	109.5	119.5	M6	220	VX9-08K-114109-105-K

10000VDC, RATED VOLTAGE								
VOLTAGE [V]		CAP ⁽³⁾	DIMENSIONS [mm]			TERMINAL	CURRENT	ORDERING CODE
VDC	V-PEAK ⁽¹⁾	μF	D	L	T - T		I-PEAK ⁽²⁾ [A]	
10000	14000	0.1	51	109.5	119.5	M6	30	VX9-10K-051109-104-K
10000	14000	0.15	60	109.5	119.5	M6	45	VX9-10K-060109-154-K
10000	14000	0.22	71	109.5	119.5	M6	66	VX9-10K-071109-224-K
10000	14000	0.33	88	109.5	119.5	M6	99	VX9-10K-088109-334-K
10000	14000	0.47	101	109.5	119.5	M6	141	VX9-10K-101109-474-K
10000	14000	0.68	121	109.5	119.5	M6	204	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

VX9

HIGH VOLTAGE DC CAPACITORS

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



16000VDC, RATED VOLTAGE								
VOLTAGE [V]		CAP ⁽³⁾	DIMENSIONS [mm]			TERMINAL	CURRENT	ORDERING CODE
VDC	V-PEAK ⁽¹⁾	μF	D	L	T - T		I-PEAK ⁽²⁾ [A]	
16000	22000	0.033	52	137.5	147.5	M6	17	VX9-16K-052137-333-K
16000	22000	0.047	61	137.5	147.5	M6	24	VX9-16K-061137-473-K
16000	22000	0.068	71	137.5	147.5	M6	34	VX9-16K-071137-683-K
16000	22000	0.1	85	137.5	147.5	M6	50	VX9-16K-085137-104-K
16000	22000	0.15	102	137.5	147.5	M6	75	VX9-16K-102137-154-K
16000	22000	0.22	122	137.5	147.5	M6	110	VX9-16K-122137-224-K

20000VDC, RATED VOLTAGE								
VOLTAGE [V]		CAP ⁽³⁾	DIMENSIONS [mm]			TERMINAL	CURRENT	ORDERING CODE
VDC	V-PEAK ⁽¹⁾	μF	D	L	T - T		I-PEAK ⁽²⁾ [A]	
20000	28000	0.022	52	137.5	147.5	M6	13	VX9-20K-052137-223-K
20000	28000	0.033	61	137.5	147.5	M6	20	VX9-20K-061137-333-K
20000	28000	0.047	71	137.5	147.5	M6	28	VX9-20K-071137-473-K
20000	28000	0.068	84	137.5	147.5	M6	41	VX9-20K-084137-683-K
20000	28000	0.1	100	137.5	147.5	M6	60	VX9-20K-100137-104-K
20000	28000	0.15	121	137.5	147.5	M6	90	VX9-20K-121137-154-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

VX9

HIGH VOLTAGE DC CAPACITORS

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



30000VDC, RATED VOLTAGE								
VOLTAGE [V]		CAP ⁽³⁾	DIMENSIONS [mm]			TERMINAL	CURRENT	ORDERING CODE
VDC	V-PEAK ⁽¹⁾	μF	D	L	T - T		I-PEAK ⁽²⁾ [A]	
30000	42000	0.01	49	174.5	184.5	M6	7	VX9-30K-049174-103-K
30000	42000	0.015	58	174.5	184.5	M6	11	VX9-30K-058174-153-K
30000	42000	0.022	68	174.5	184.5	M6	15	VX9-30K-068174-223-K
30000	42000	0.033	80	174.5	184.5	M6	23	VX9-30K-080174-333-K
30000	42000	0.047	94	174.5	184.5	M6	33	VX9-30K-094174-473-K
30000	42000	0.068	113	174.5	184.5	M6	48	VX9-30K-113174-683-K

50000VDC, RATED VOLTAGE								
VOLTAGE [V]		CAP ⁽³⁾	DIMENSIONS [mm]			TERMINAL	CURRENT	ORDERING CODE
VDC	V-PEAK ⁽¹⁾	μF	D	L	T - T		I-PEAK ⁽²⁾ [A]	
50000	65000	0.0047	59	192.5	202.5	M6	3.8	VX9-50K-059192-472-K
50000	65000	0.0068	69	192.5	202.5	M6	5.4	VX9-50K-069192-682-K
50000	65000	0.01	82	192.5	202.5	M6	8	VX9-50K-082192-103-K
50000	65000	0.015	98	192.5	202.5	M6	12	VX9-50K-098192-153-K
50000	65000	0.022	118	192.5	202.5	M6	17.6	VX9-50K-118192-223-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

ALL INFORMATION ON THE FILE MAY CHANGE WITHOUT NOTICE

#303 Hyundai I Valley, 149 Gongdanro, Gunpo City, Gyeonggi-do, Korea

VOICE. +82-31-429-6379 FAX. +82-31-429-9127

info@3RLab.com www.3RLab.com 3RLab, Inc.



UPDATE 2023-06-29