

DX8 HIGH VOLTAGE DC FILM CAPACITORS



HIGH CURRENT METALLIZED POLYPROPYLENE WITH DOUBLE
SIDE METALLIZED.
CUSTOM DESIGN AVAILABLE.

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



MAIN CHARACTERISTICS:

- SELF-HEALING METALLIZED POLYPROPYLENE DOUBLE SIDE 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 CIRCUITS
- SMPS, MOTOR SPEED CONTROLS
- SNUBBER



DX8 HIGH VOLTAGE DC FILM CAPACITORS

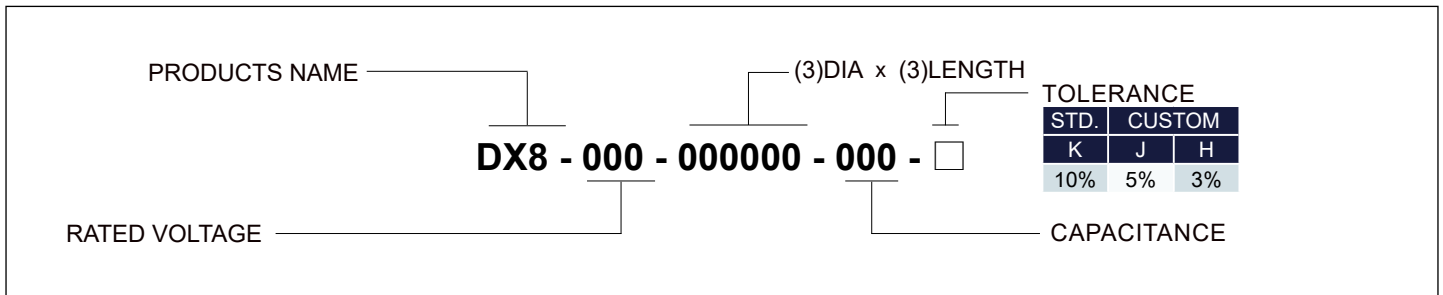


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DC VOLTAGE RANGE	600~50000 V
CAPACITANCE RANGE	UP TO 40 μ F
CAPACITANCE TOLERANCE (AT +25°C)	STANDARD: \pm 10% ON REQUEST \pm 3%, \pm 5%
EQUIVALENT SERIES RESISTANCE	< 4.5 m Ω
MAXIMUM VOLTAGE RATE OF RISE(dV/dT)	\leq 1000 V/ μ S
TERMINALS	M6
VOLTAGE TEST	RATED VOLTAGE X 1.5 TIMES FOR 10 SECS
WORKING & STORAGE TEMPERATURE	-25 / +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 1 % , MEASURED AT 25 \pm 5°C, 1 kHz

ORDERING INFORMATION



ALL OF SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRENOTICE.



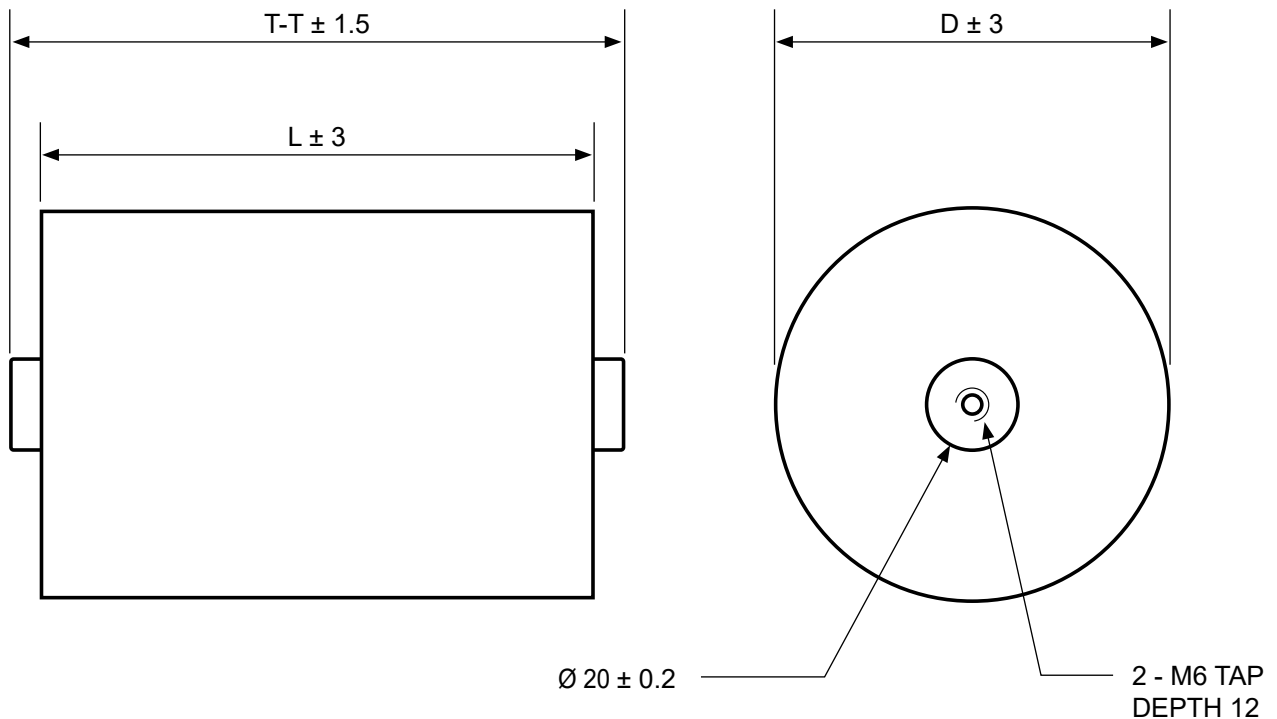
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DIMENSION[mm]



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600VDC, RATED VOLTAGE

VOLTAGE AT +85°C		CAP ⁽³⁾	DIMENSIONS[mm]			TERMI-NAL	CURRENT	ORDERING CODE
VDC	V -PEAK	μF	D	L	T-T		I-PEAK ⁽²⁾ [A]	
600	950	5	53	95.5	105.5	M6	1500	DX8-006-053095-505-K
600	950	5.6	55	95.5	105.5	M6	1680	DX8-006-055095-565-K
600	950	6	57	95.5	105.5	M6	1800	DX8-006-057095-605-K
600	950	7	61	95.5	105.5	M6	2100	DX8-006-061095-705-K
600	950	8	65	95.5	105.5	M6	2400	DX8-006-065095-805-K
600	950	9	68	95.5	105.5	M6	2700	DX8-006-068095-905-K
600	950	10	71	95.5	105.5	M6	3000	DX8-006-071095-106-K
600	950	12	77	95.5	105.5	M6	3600	DX8-006-077095-126-K
600	950	15	85	95.5	105.5	M6	4500	DX8-006-085095-156-K
600	950	18	93	95.5	105.5	M6	5400	DX8-006-093095-186-K
600	950	20	97	95.5	105.5	M6	6000	DX8-006-097095-206-K
600	950	22	102	95.5	105.5	M6	6600	DX8-006-102095-226-K
600	950	25	108	95.5	105.5	M6	7500	DX8-006-108095-256-K
600	950	30	119	95.5	105.5	M6	9000	DX8-006-119095-306-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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800VDC, RATED VOLTAGE

VOLTAGE AT +85°C		CAP ⁽³⁾ μF	DIMENSIONS [mm]			TERMI- NAL	CURRENT	ORDERING CODE
VDC	V -PEAK		D	L	T-T		I-PEAK ⁽²⁾ [A]	
800	1250	4	51	95.5	105.5	M6	1600	DX8-008-051095-405-K
800	1250	4.7	54	95.5	105.5	M6	1880	DX8-008-054095-475-K
800	1250	5	56	95.5	105.5	M6	2000	DX8-008-056095-505-K
800	1250	5.6	59	95.5	105.5	M6	2240	DX8-008-059095-565-K
800	1250	6	61	95.5	105.5	M6	2400	DX8-008-061095-605-K
800	1250	7	64	95.5	105.5	M6	2800	DX8-008-064095-705-K
800	1250	8	68	95.5	105.5	M6	3200	DX8-008-068095-805-K
800	1250	9	72	95.5	105.5	M6	3600	DX8-008-072095-905-K
800	1250	10	75	95.5	105.5	M6	4000	DX8-008-075095-106-K
800	1250	12	82	95.5	105.5	M6	4800	DX8-008-082095-126-K
800	1250	15	90	95.5	105.5	M6	6000	DX8-008-090095-156-K
800	1250	18	98	95.5	105.5	M6	7200	DX8-008-098095-186-K
800	1250	20	104	95.5	105.5	M6	8000	DX8-008-104095-206-K
800	1250	22	109	95.5	105.5	M6	8800	DX8-008-109095-226-K
800	1250	25	116	95.5	105.5	M6	10000	DX8-008-116095-256-K

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1000VDC, RATED VOLTAGE

VOLTAGE AT +85°C		CAP ⁽³⁾ μF	DIMENSIONS[mm]			TERMI- NAL	CURRENT	ORDERING CODE
VDC	V -PEAK		D	L	T-T		I-PEAK ⁽²⁾ [A]	
1000	1550	3	50	95.5	105.5	M6	1500	DX8-010-050095-305-K
1000	1550	3.3	51	95.5	105.5	M6	1650	DX8-010-051095-335-K
1000	1550	3.7	52	95.5	105.5	M6	1850	DX8-010-052095-375-K
1000	1550	4	53	95.5	105.5	M6	2000	DX8-010-053095-405-K
1000	1550	4.7	57	95.5	105.5	M6	2350	DX8-010-057095-475-K
1000	1550	5	59	95.5	105.5	M6	2500	DX8-010-059095-505-K
1000	1550	5.6	61	95.5	105.5	M6	2800	DX8-010-061095-565-K
1000	1550	6	63	95.5	105.5	M6	3000	DX8-010-063095-605-K
1000	1550	7	68	95.5	105.5	M6	3500	DX8-010-068095-705-K
1000	1550	8	72	95.5	105.5	M6	4000	DX8-010-072095-805-K
1000	1550	9	75	95.5	105.5	M6	4500	DX8-010-075095-905-K
1000	1550	10	79	95.5	105.5	M6	5000	DX8-010-079095-106-K
1000	1550	12	86	95.5	105.5	M6	6000	DX8-010-086095-126-K
1000	1550	15	95	95.5	105.5	M6	7500	DX8-010-095095-156-K
1000	1550	18	105	95.5	105.5	M6	9000	DX8-010-105095-186-K
1000	1550	20	110	95.5	105.5	M6	10000	DX8-010-110095-206-K

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1200VDC, RATED VOLTAGE

VOLTAGE AT +85°C		CAP ⁽³⁾	DIMENSIONS[mm]			TERMI-NAL	CURRENT	ORDERING CODE
VDC	V -PEAK	μF	D	L	T-T		I-PEAK ⁽²⁾ [A]	
1200	1800	2.2	51	95.5	105.5	M6	1320	DX8-012-051095-225-K
1200	1800	2.5	54	95.5	105.5	M6	1500	DX8-012-054095-255-K
1200	1800	3	58	95.5	105.5	M6	1800	DX8-012-058095-305-K
1200	1800	3.3	61	95.5	105.5	M6	1980	DX8-012-061095-335-K
1200	1800	4	66	95.5	105.5	M6	2400	DX8-012-066095-405-K
1200	1800	4.7	70	95.5	105.5	M6	2820	DX8-012-070095-475-K
1200	1800	5	72	95.5	105.5	M6	3000	DX8-012-072095-505-K
1200	1800	5.6	76	95.5	105.5	M6	3360	DX8-012-076095-565-K
1200	1800	6	78	95.5	105.5	M6	3600	DX8-012-078095-605-K
1200	1800	7	84	95.5	105.5	M6	4200	DX8-012-084095-705-K
1200	1800	8	89	95.5	105.5	M6	4800	DX8-012-089095-805-K
1200	1800	9	95	95.5	105.5	M6	5400	DX8-012-095095-905-K
1200	1800	10	100	95.5	105.5	M6	6000	DX8-012-100095-106-K
1200	1800	12	108	95.5	105.5	M6	7200	DX8-012-108095-126-K
1200	1800	15	120	95.5	105.5	M6	9000	DX8-012-120095-156-K

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1600VDC, RATED VOLTAGE

VOLTAGE AT +85°C		CAP ⁽³⁾ μF	DIMENSIONS[mm]			TERMI- NAL	CURRENT	ORDERING CODE
VDC	V -PEAK		D	L	T-T		I-PEAK ⁽²⁾ [A]	
1600	2400	2	54	95.5	105.5	M6	1600	DX8-016-054095-205-K
1600	2400	2.2	56	95.5	105.5	M6	1760	DX8-016-056095-225-K
1600	2400	2.5	60	95.5	105.5	M6	2000	DX8-016-060095-255-K
1600	2400	3	64	95.5	105.5	M6	2400	DX8-016-064095-305-K
1600	2400	3.3	67	95.5	105.5	M6	2640	DX8-016-067095-335-K
1600	2400	3.7	70	95.5	105.5	M6	2960	DX8-016-070095-375-K
1600	2400	4	73	95.5	105.5	M6	3200	DX8-016-073095-405-K
1600	2400	4.7	78	95.5	105.5	M6	3760	DX8-016-078095-475-K
1600	2400	5	81	95.5	105.5	M6	4000	DX8-016-081095-505-K
1600	2400	5.6	85	95.5	105.5	M6	4480	DX8-016-085095-565-K
1600	2400	6	88	95.5	105.5	M6	4800	DX8-016-088095-605-K
1600	2400	7	94	95.5	105.5	M6	5600	DX8-016-094095-705-K
1600	2400	7.5	97	95.5	105.5	M6	6000	DX8-016-097095-755-K
1600	2400	8	100	95.5	105.5	M6	6400	DX8-016-100095-805-K
1600	2400	9	106	95.5	105.5	M6	7200	DX8-016-106095-905-K
1600	2400	10	112	95.5	105.5	M6	8000	DX8-016-112095-106-K

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2000VDC, RATED VOLTAGE

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VDC	V -PEAK		D	L	T-T		I-PEAK ⁽²⁾ [A]	
2000	3000	1.2	50	95.5	105.5	M6	1200	DX8-020-050095-125-K
2000	3000	1.5	54	95.5	105.5	M6	1500	DX8-020-054095-155-K
2000	3000	2	61	95.5	105.5	M6	2000	DX8-020-061095-205-K
2000	3000	2.2	64	95.5	105.5	M6	2200	DX8-020-064095-225-K
2000	3000	2.5	67	95.5	105.5	M6	2500	DX8-020-067095-255-K
2000	3000	3	73	95.5	105.5	M6	3000	DX8-020-073095-305-K
2000	3000	3.3	77	95.5	105.5	M6	3300	DX8-020-077095-335-K
2000	3000	3.7	81	95.5	105.5	M6	2590	DX8-020-081095-375-K
2000	3000	4	83	95.5	105.5	M6	2800	DX8-020-083095-405-K
2000	3000	4.7	89	95.5	105.5	M6	3290	DX8-020-089095-475-K
2000	3000	5	72	127.5	137.5	M6	3500	DX8-020-072127-505-K
2000	3000	6	78	127.5	137.5	M6	4200	DX8-020-078127-605-K
2000	3000	7	83	127.5	137.5	M6	4900	DX8-020-083127-705-K
2000	3000	7.5	86	127.5	137.5	M6	5250	DX8-020-086127-755-K
2000	3000	8	88	127.5	137.5	M6	5600	DX8-020-088127-805-K
2000	3000	9	93	127.5	137.5	M6	6300	DX8-020-093127-905-K
2000	3000	10	98	127.5	137.5	M6	7000	DX8-020-098127-106-K
2000	3000	12	107	127.5	137.5	M6	8400	DX8-020-107127-126-K
2000	3000	15	120	127.5	137.5	M6	10500	DX8-020-120127-156-K

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3000VDC, RATED VOLTAGE

VOLTAGE AT +85°C		CAP ⁽³⁾ μF	DIMENSIONS[mm]			TERMI- NAL	CURRENT	ORDERING CODE
VDC	V -PEAK		D	L	T-T		I-PEAK ⁽²⁾ [A]	
3000	4500	0.68	52	95.5	105.5	M6	1020	DX8-030-052095-684-K
3000	4500	1	61	95.5	105.5	M6	1500	DX8-030-061095-105-K
3000	4500	1.2	66	95.5	105.5	M6	1800	DX8-030-066095-125-K
3000	4500	1.5	72	95.5	105.5	M6	2250	DX8-030-072095-155-K
3000	4500	2	82	95.5	105.5	M6	2100	DX8-030-082095-205-K
3000	4500	2.2	66	127.5	137.5	M6	2310	DX8-030-066127-225-K
3000	4500	2.5	72	127.5	137.5	M6	2625	DX8-030-072127-255-K
3000	4500	3	76	127.5	137.5	M6	3150	DX8-030-076127-305-K
3000	4500	3.3	79	127.5	137.5	M6	3465	DX8-030-079127-335-K
3000	4500	3.7	83	127.5	137.5	M6	3885	DX8-030-083127-375-K
3000	4500	4	86	127.5	137.5	M6	4200	DX8-030-086127-405-K
3000	4500	4.7	93	127.5	137.5	M6	4935	DX8-030-093127-475-K
3000	4500	5	96	127.5	137.5	M6	5250	DX8-030-096127-505-K
3000	4500	6	105	127.5	137.5	M6	6300	DX8-030-105127-605-K
3000	4500	7	112	127.5	137.5	M6	7350	DX8-030-112127-705-K

4000VDC, RATED VOLTAGE

4000	6000	0.33	50	95.5	105.5	M6	660	DX8-040-050095-334-K
4000	6000	0.47	57	95.5	105.5	M6	940	DX8-040-057095-474-K
4000	6000	0.68	66	95.5	105.5	M6	1360	DX8-040-066095-684-K

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4000VDC, RATED VOLTAGE

VOLTAGE AT +85°C		CAP ⁽³⁾ μF	DIMENSIONS[mm]			TERMI- NAL	CURRENT	ORDERING CODE
VDC	V -PEAK		D	L	T-T		I-PEAK ⁽²⁾ [A]	
4000	6000	1	78	95.5	105.5	M6	2000	DX8-040-078095-105-K
4000	6000	1.2	87	127.5	137.5	M6	1680	DX8-040-087127-125-K
4000	6000	1.5	73	127.5	137.5	M6	2100	DX8-040-073127-155-K
4000	6000	2	83	127.5	137.5	M6	2800	DX8-040-083127-205-K
4000	6000	2.2	86	127.5	137.5	M6	3080	DX8-040-086127-225-K
4000	6000	2.5	92	127.5	137.5	M6	3500	DX8-040-092127-255-K
4000	6000	3	100	127.5	137.5	M6	4200	DX8-040-100127-305-K
4000	6000	3.3	105	127.5	137.5	M6	4620	DX8-040-105127-335-K
4000	6000	3.7	110	127.5	137.5	M6	5180	DX8-040-110127-375-K
4000	6000	4	115	127.5	137.5	M6	5600	DX8-040-115127-405-K

6000VDC, RATED VOLTAGE

6000	9000	0.22	50	127.5	137.5	M6	462	DX8-060-050127-224-K
6000	9000	0.33	56	127.5	137.5	M6	693	DX8-060-056127-334-K
6000	9000	0.47	65	127.5	137.5	M6	987	DX8-060-065127-474-K
6000	9000	0.68	77	127.5	137.5	M6	1428	DX8-060-077127-684-K
6000	9000	1	91	127.5	137.5	M6	2100	DX8-060-091127-105-K
6000	9000	1.2	100	127.5	137.5	M6	2520	DX8-060-100127-125-K
6000	9000	1.5	111	127.5	137.5	M6	3150	DX8-060-111127-155-K

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10000VDC, RATED VOLTAGE

VOLTAGE AT +85°C		CAP ⁽³⁾ μF	DIMENSIONS [mm]			TERMI-NAL	CURRENT	ORDERING CODE
VDC	V -PEAK		D	L	T-T		I-PEAK ⁽²⁾ [A]	
10000	15000	0.1	51	127.5	137.5	M6	350	DX8-100-051127-104-K
10000	15000	0.15	60	127.5	137.5	M6	525	DX8-100-060127-154-K
10000	15000	0.22	71	127.5	137.5	M6	770	DX8-100-071127-224-K
10000	15000	0.33	85	127.5	137.5	M6	1155	DX8-100-085127-334-K
10000	15000	0.47	100	127.5	137.5	M6	1645	DX8-100-100127-474-K
10000	15000	0.68	119	127.5	137.5	M6	2380	DX8-100-119127-684-K

20000VDC, RATED VOLTAGE

20000	30000	0.022	50	151.5	161.5	M6	66	DX8-200-050151-223-K
20000	30000	0.033	58	151.5	161.5	M6	99	DX8-200-058151-333-K
20000	30000	0.047	68	151.5	161.5	M6	141	DX8-200-068151-473-K
20000	30000	0.068	79	151.5	161.5	M6	204	DX8-200-079151-683-K
20000	30000	0.1	95	151.5	161.5	M6	300	DX8-200-095151-104-K
20000	30000	0.15	114	151.5	161.5	M6	450	DX8-200-114151-154-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

HIGH CURRENT METALLIZED POLYPROPYLENE WITH DOUBLE
SIDE METALLIZED.
CUSTOM DESIGN AVAILABLE.

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UPDATA : 2021-10-14

30000VDC, RATED VOLTAGE

VOLTAGE AT +85°C		CAP ⁽³⁾ μF	DIMENSIONS [mm]			TERMI- NAL	CURRENT	ORDERING CODE
VDC	V -PEAK		D	L	T-T		I-PEAK ⁽²⁾ [A]	
30000	45000	0.01	50	189.5	199.5	M6	23	DX8-300-050189-103-K
30000	45000	0.015	57	189.5	199.5	M6	34	DX8-300-057189-153-K
30000	45000	0.022	67	189.5	199.5	M6	50	DX8-300-067189-223-K
30000	45000	0.033	80	189.5	199.5	M6	74	DX8-300-080189-333-K
30000	45000	0.047	94	189.5	199.5	M6	106	DX8-300-094189-473-K
30000	45000	0.068	111	189.5	199.5	M6	153	DX8-300-111189-683-K

50000VDC, RATED VOLTAGE

50000	75000	0.0033	52	193.5	203.5	M6	7	DX8-500-052193-332-K
50000	75000	0.0047	61	193.5	203.5	M6	10	DX8-500-061193-472-K
50000	75000	0.0068	71	193.5	203.5	M6	15	DX8-500-071193-682-K
50000	75000	0.01	84	193.5	203.5	M6	22	DX8-500-084193-103-K
50000	75000	0.015	102	193.5	203.5	M6	33	DX8-500-102193-153-K
50000	75000	0.022	120	193.5	203.5	M6	48	DX8-500-120193-223-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 THIS FILE IS SUBJECT TO CHANGE WITHOUT PRE-NOTICE.