

DX8 HIGH VOLTAGE DC FILM CAPACITORS



HIGH CURRENT METALLIZED POLYPROPYLENE WITH DOUBLE SIDE METALLIZED.

VOICE : +82-31-429-6379
FAX : +82-31-429-9127
E-MAIL : info@3RLab.com
UPDATA : 2021-03-31



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 CITCUITS
- SMPS, MOTOR SPEED CONTROLS
- SNUBBER



DX8 HIGH VOLTAGE DC FILM CAPACITORS

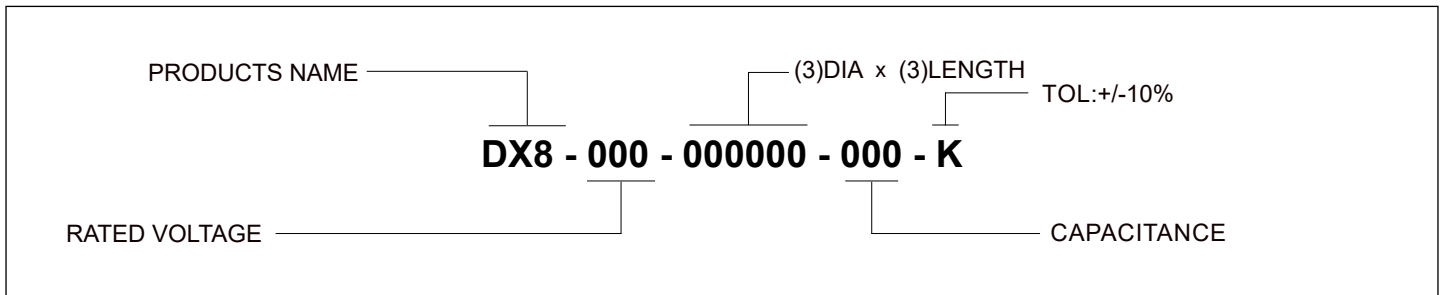


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DC VOLTAGE RANGE	600~50000 V
CAPACITANCE RANGE	UP TO 40 μ F
CAPACITANCE TOLERANCE (+25°C)	STANDARD: \pm 10% ON REQUEST \pm 1%, \pm 2%, \pm 5%
EQUIVALENT SERIES RESISTANCE	< 4.5 m Ω
MAXIMUM VOLTAGE RATE OF RISE(dV/dT)	\leq 1000 V/ μ S
TERMINALS	M6
VOLTAGE 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



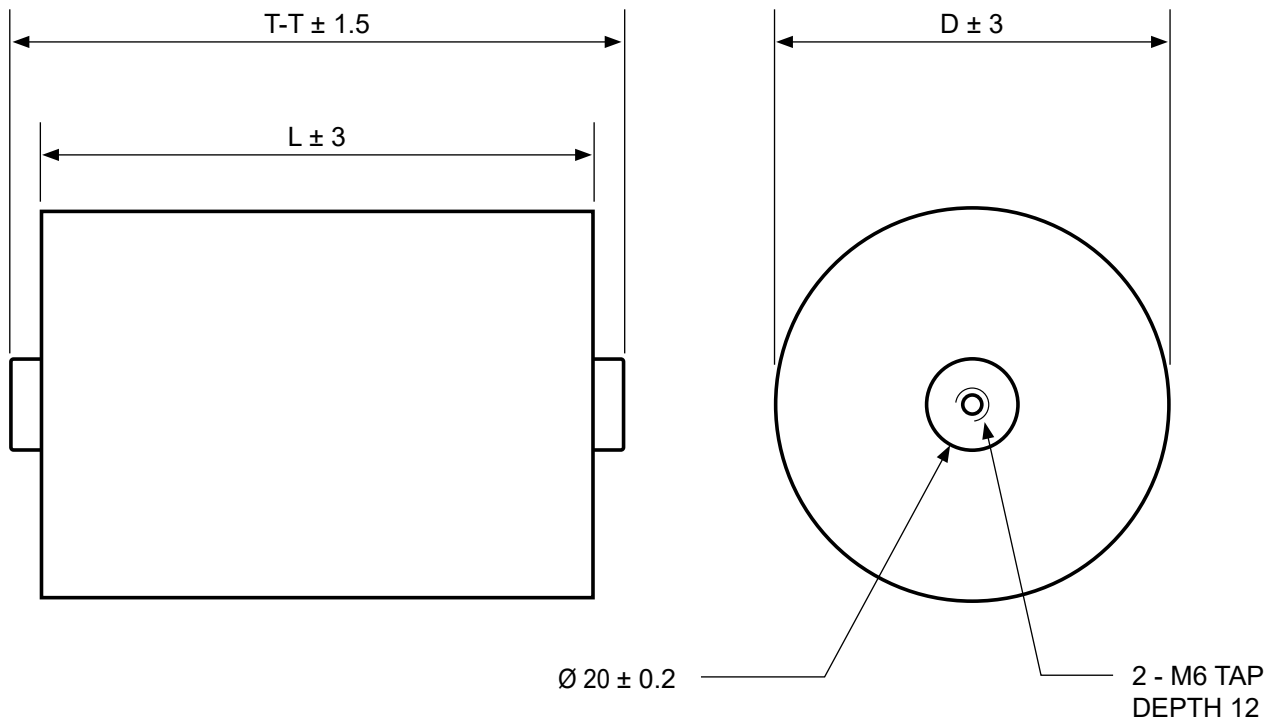
ALL OF SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRENOTICE.



HIGH CURRENT METALLIZED POLYPROPYLENE WITH DOUBLE
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DIMENSION[mm]



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600VDC, RATED VOLTAGE

VOLTAGE AT +85°C			CAP ⁽³⁾ μF	DIMENSIONS[mm]			TERMI- NAL	CURRENT I-PEAK ⁽²⁾ [A]	ORDERING CODE
VDC	V-RMS (VAC)	V -PEAK		D	L	T-T			
600	275	950	7	55	95.5	105.5	M6	2100	DX8-006-055095-705-K
600	275	950	7.5	57	95.5	105.5	M6	2250	DX8-006-057095-755-K
600	275	950	8	58	95.5	105.5	M6	2400	DX8-006-058095-805-K
600	275	950	9	61	95.5	105.5	M6	2700	DX8-006-061095-905-K
600	275	950	10	64	95.5	105.5	M6	3000	DX8-006-064095-106-K
600	275	950	12	69	95.5	105.5	M6	3600	DX8-006-069095-126-K
600	275	950	15	76	95.5	105.5	M6	4500	DX8-006-076095-156-K
600	275	950	18	82	95.5	105.5	M6	5400	DX8-006-082095-186-K
600	275	950	20	86	95.5	105.5	M6	6000	DX8-006-086095-206-K
600	275	950	22	89	95.5	105.5	M6	6600	DX8-006-089095-226-K
600	275	950	25	95	95.5	105.5	M6	7500	DX8-006-095095-256-K
600	275	950	30	103	95.5	105.5	M6	9000	DX8-006-103095-306-K
600	275	950	35	111	95.5	105.5	M6	10500	DX8-006-111095-356-K
600	275	950	40	118	95.5	105.5	M6	12000	DX8-006-118095-406-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 I-PEAK ⁽²⁾ [A]	ORDERING CODE
VDC	V-RMS (VAC)	V -PEAK		D	L	T-T			
800	450	1250	4.7	52	95.5	105.5	M6	1880	DX8-008-052095-475-K
800	450	1250	5	54	95.5	105.5	M6	2000	DX8-008-054095-505-K
800	450	1250	5.6	56	95.5	105.5	M6	2240	DX8-008-056095-565-K
800	450	1250	6	58	95.5	105.5	M6	2400	DX8-008-058095-605-K
800	450	1250	7	61	95.5	105.5	M6	2800	DX8-008-061095-705-K
800	450	1250	7.5	63	95.5	105.5	M6	3000	DX8-008-063095-755-K
800	450	1250	8	65	95.5	105.5	M6	3200	DX8-008-065095-805-K
800	450	1250	9	68	95.5	105.5	M6	3600	DX8-008-068095-905-K
800	450	1250	10	71	95.5	105.5	M6	4000	DX8-008-071095-106-K
800	450	1250	12	77	95.5	105.5	M6	4800	DX8-008-077095-126-K
800	450	1250	15	85	95.5	105.5	M6	6000	DX8-008-085095-156-K
800	450	1250	18	92	95.5	105.5	M6	7200	DX8-008-092095-186-K
800	450	1250	20	97	95.5	105.5	M6	8000	DX8-008-097095-206-K
800	450	1250	22	102	95.5	105.5	M6	8800	DX8-008-102095-226-K
800	450	1250	25	108	95.5	105.5	M6	10000	DX8-008-108095-256-K
800	450	1250	30	118	95.5	105.5	M6	12000	DX8-008-118095-306-K

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1000VDC, RATED VOLTAGE

VOLTAGE AT +85°C			CAP ⁽³⁾ μF	DIMENSIONS[mm]			TERMI- NAL	CURRENT I-PEAK ⁽²⁾ [A]	ORDERING CODE
VDC	V-RMS (VAC)	V -PEAK		D	L	T-T			
1000	500	1550	3	48	95.5	105.5	M6	1500	DX8-010-048095-305-K
1000	500	1550	3.3	50	95.5	105.5	M6	1650	DX8-010-050095-335-K
1000	500	1550	3.7	52	95.5	105.5	M6	1850	DX8-010-052095-375-K
1000	500	1550	4	54	95.5	105.5	M6	2000	DX8-010-054095-405-K
1000	500	1550	4.7	57	95.5	105.5	M6	2350	DX8-010-057095-475-K
1000	500	1550	5	59	95.5	105.5	M6	2500	DX8-010-059095-505-K
1000	500	1550	5.6	62	95.5	105.5	M6	2800	DX8-010-062095-565-K
1000	500	1550	6	63	95.5	105.5	M6	3000	DX8-010-063095-605-K
1000	500	1550	7	68	95.5	105.5	M6	3500	DX8-010-068095-705-K
1000	500	1550	7.5	70	95.5	105.5	M6	3750	DX8-010-070095-755-K
1000	500	1550	8	72	95.5	105.5	M6	4000	DX8-010-072095-805-K
1000	500	1550	9	75	95.5	105.5	M6	4500	DX8-010-075095-905-K
1000	500	1550	10	79	95.5	105.5	M6	5000	DX8-010-079095-106-K
1000	500	1550	12	85	95.5	105.5	M6	6000	DX8-010-085095-126-K
1000	500	1550	15	95	95.5	105.5	M6	7500	DX8-010-095095-156-K
1000	500	1550	18	104	95.5	105.5	M6	9000	DX8-010-104095-186-K
1000	500	1550	20	109	95.5	105.5	M6	10000	DX8-010-109095-206-K
1000	500	1550	25	120	95.5	105.5	M6	12500	DX8-010-120095-256-K

**CAPACITANCE AND THREADS TERMINAL AVAILABLE AS CUSTOM.

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1200VDC, RATED VOLTAGE

VOLTAGE AT +85°C			CAP ⁽³⁾ μF	DIMENSIONS[mm]			TERMI- NAL	CURRENT I-PEAK ⁽²⁾ [A]	ORDERING CODE
VDC	V-RMS (VAC)	V -PEAK		D	L	T-T			
1200	600	1800	2.5	49	95.5	105.5	M6	1500	DX8-012-049095-255-K
1200	600	1800	3	52	95.5	105.5	M6	1800	DX8-012-052095-305-K
1200	600	1800	3.3	54	95.5	105.5	M6	1980	DX8-012-054095-335-K
1200	600	1800	3.7	57	95.5	105.5	M6	2220	DX8-012-057095-375-K
1200	600	1800	4	59	95.5	105.5	M6	2400	DX8-012-059095-405-K
1200	600	1800	4.7	63	95.5	105.5	M6	2820	DX8-012-063095-475-K
1200	600	1800	5	64	95.5	105.5	M6	3000	DX8-012-064095-505-K
1200	600	1800	5.6	67	95.5	105.5	M6	3360	DX8-012-067095-565-K
1200	600	1800	6	69	95.5	105.5	M6	3600	DX8-012-069095-605-K
1200	600	1800	7	74	95.5	105.5	M6	4200	DX8-012-074095-705-K
1200	600	1800	7.5	76	95.5	105.5	M6	4500	DX8-012-076095-755-K
1200	600	1800	8	78	95.5	105.5	M6	4800	DX8-012-078095-805-K
1200	600	1800	9	83	95.5	105.5	M6	5400	DX8-012-083095-905-K
1200	600	1800	10	87	95.5	105.5	M6	6000	DX8-012-087095-106-K
1200	600	1800	12	95	95.5	105.5	M6	7200	DX8-012-095095-126-K
1200	600	1800	15	106	95.5	105.5	M6	9000	DX8-012-106095-156-K
1200	600	1800	18	114	95.5	105.5	M6	10800	DX8-012-114095-186-K
1200	600	1800	20	120	95.5	105.5	M6	12000	DX8-012-120095-206-K

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1600VDC, RATED VOLTAGE

VOLTAGE AT +85°C			CAP ⁽³⁾ μF	DIMENSIONS[mm]			TERMI- NAL	CURRENT I-PEAK ⁽²⁾ [A]	ORDERING CODE
VDC	V-RMS (VAC)	V -PEAK		D	L	T-T			
1600	800	2400	2	52	95.5	105.5	M6	1600	DX8-016-052095-205-K
1600	800	2400	2.2	54	95.5	105.5	M6	1760	DX8-016-054095-225-K
1600	800	2400	2.5	56	95.5	105.5	M6	2000	DX8-016-056095-255-K
1600	800	2400	3	60	95.5	105.5	M6	2400	DX8-016-060095-305-K
1600	800	2400	3.3	63	95.5	105.5	M6	2640	DX8-016-063095-335-K
1600	800	2400	3.7	66	95.5	105.5	M6	2960	DX8-016-066095-375-K
1600	800	2400	4	68	95.5	105.5	M6	3200	DX8-016-068095-405-K
1600	800	2400	4.7	73	95.5	105.5	M6	3760	DX8-016-073095-475-K
1600	800	2400	5	75	95.5	105.5	M6	4000	DX8-016-075095-505-K
1600	800	2400	5.6	79	95.5	105.5	M6	4480	DX8-016-079095-565-K
1600	800	2400	6	81	95.5	105.5	M6	4800	DX8-016-081095-605-K
1600	800	2400	7	87	95.5	105.5	M6	5600	DX8-016-087095-705-K
1600	800	2400	7.5	90	95.5	105.5	M6	6000	DX8-016-090095-755-K
1600	800	2400	8	93	95.5	105.5	M6	6400	DX8-016-093095-805-K
1600	800	2400	9	98	95.5	105.5	M6	7200	DX8-016-098095-905-K
1600	800	2400	10	103	95.5	105.5	M6	8000	DX8-016-103095-106-K
1600	800	2400	12	112	95.5	105.5	M6	9600	DX8-016-112095-126-K

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2000VDC, RATED VOLTAGE

VOLTAGE AT +85°C			CAP ⁽³⁾ μF	DIMENSIONS[mm]			TERMI- NAL	CURRENT I-PEAK ⁽²⁾ [A]	ORDERING CODE
VDC	V-RMS (VAC)	V -PEAK		D	L	T-T			
2000	1000	3000	1.2	53	95.5	105.5	M6	1200	DX8-020-053095-125-K
2000	1000	3000	1.5	58	95.5	105.5	M6	1500	DX8-020-058095-155-K
2000	1000	3000	2	65	95.5	105.5	M6	2000	DX8-020-065095-205-K
2000	1000	3000	2.2	68	95.5	105.5	M6	2200	DX8-020-068095-225-K
2000	1000	3000	2.5	71	95.5	105.5	M6	2500	DX8-020-071095-255-K
2000	1000	3000	3	77	95.5	105.5	M6	3000	DX8-020-077095-305-K
2000	1000	3000	3.3	80	95.5	105.5	M6	3300	DX8-020-080095-335-K
2000	1000	3000	3.7	65	127.5	137.5	M6	2590	DX8-020-065127-375-K
2000	1000	3000	4	67	127.5	137.5	M6	2800	DX8-020-067127-405-K
2000	1000	3000	4.7	72	127.5	137.5	M6	3290	DX8-020-072127-475-K
2000	1000	3000	5	74	127.5	137.5	M6	3500	DX8-020-074127-505-K
2000	1000	3000	6	80	127.5	137.5	M6	4200	DX8-020-080127-605-K
2000	1000	3000	7	85	127.5	137.5	M6	4900	DX8-020-085127-705-K
2000	1000	3000	7.5	88	127.5	137.5	M6	5250	DX8-020-088127-755-K
2000	1000	3000	8	93	127.5	137.5	M6	5600	DX8-020-093127-805-K
2000	1000	3000	9	98	127.5	137.5	M6	6300	DX8-020-098127-905-K
2000	1000	3000	10	102	127.5	137.5	M6	7000	DX8-020-102127-106-K
2000	1000	3000	15	121	127.5	137.5	M6	10500	DX8-020-121127-156-K

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3000VDC, RATED VOLTAGE

VOLTAGE AT +85°C			CAP ⁽³⁾ μF	DIMENSIONS[mm]			TERMI- NAL	CURRENT I-PEAK ⁽²⁾ [A]	ORDERING CODE
VDC	V-RMS (VAC)	V -PEAK		D	L	T-T			
3000	1500	4500	0.47	51	95.5	105.5	M6	705	DX8-030-051095-474-K
3000	1500	4500	0.68	52	95.5	105.5	M6	1020	DX8-030-052095-684-K
3000	1500	4500	1	62	95.5	105.5	M6	1500	DX8-030-062095-105-K
3000	1500	4500	1.2	68	95.5	105.5	M6	1800	DX8-030-068095-125-K
3000	1500	4500	1.5	76	127.5	137.5	M6	2250	DX8-030-076127-155-K
3000	1500	4500	2	65	127.5	137.5	M6	2100	DX8-030-065127-205-K
3000	1500	4500	2.2	68	127.5	137.5	M6	2310	DX8-030-068127-225-K
3000	1500	4500	2.5	72	127.5	137.5	M6	2625	DX8-030-072127-255-K
3000	1500	4500	3	78	127.5	137.5	M6	3150	DX8-030-078127-305-K
3000	1500	4500	3.3	81	127.5	137.5	M6	3465	DX8-030-081127-335-K
3000	1500	4500	3.7	86	127.5	137.5	M6	3885	DX8-030-086127-375-K
3000	1500	4500	4	90	127.5	137.5	M6	4200	DX8-030-090127-405-K
3000	1500	4500	4.7	97	127.5	137.5	M6	4935	DX8-030-097127-475-K
3000	1500	4500	5	100	127.5	137.5	M6	5250	DX8-030-100127-505-K
3000	1500	4500	6	110	127.5	137.5	M6	6300	DX8-030-110127-605-K

4000VDC, RATED VOLTAGE

4000	2000	6000	0.33	52	95.5	105.5	M6	660	DX8040052095334K
4000	2000	6000	0.47	60	95.5	105.5	M6	940	DX8040060095474K
4000	2000	6000	0.68	70	95.5	105.5	M6	1360	DX8040070095684K

**CAPACITANCE AND THREADS TERMINAL AVAILABLE AS CUSTOM.

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(3) MEASURED AT 1kHz ±20Hz AT 25°C

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4000VDC, RATED VOLTAGE

VOLTAGE AT +85°C			CAP ⁽³⁾ μF	DIMENSIONS[mm]			TERMI- NAL	CURRENT I-PEAK ⁽²⁾ [A]	ORDERING CODE
VDC	V-RMS (VAC)	V -PEAK		D	L	T-T			
4000	2000	6000	1	63	127.5	137.5	M6	2000	DX8-040-063127-105-K
4000	2000	6000	1.2	68	127.5	137.5	M6	1680	DX8-040-068127-125-K
4000	2000	6000	1.5	75	127.5	137.5	M6	2100	DX8-040-075127-155-K
4000	2000	6000	2	85	127.5	137.5	M6	2800	DX8-040-085127-205-K
4000	2000	6000	2.2	88	127.5	137.5	M6	3080	DX8-040-088127-225-K
4000	2000	6000	2.5	95	127.5	137.5	M6	3500	DX8-040-095127-255-K
4000	2000	6000	3	103	127.5	137.5	M6	4200	DX8-040-103127-305-K
4000	2000	6000	3.3	107	127.5	137.5	M6	4620	DX8-040-107127-335-K
4000	2000	6000	3.7	113	127.5	137.5	M6	5180	DX8-040-113127-375-K
4000	2000	6000	4	117	127.5	137.5	M6	5600	DX8-040-117127-405-K

6000VDC, RATED VOLTAGE

6000	3000	9000	0.33	58	127.5	137.5	M6	693	DX8-060-058127-334-K
6000	3000	9000	0.47	67	127.5	137.5	M6	987	DX8-060-067127-474-K
6000	3000	9000	0.68	78	127.5	137.5	M6	1428	DX8-060-078127-684-K
6000	3000	9000	1	94	127.5	137.5	M6	2100	DX8-060-094127-105-K
6000	3000	9000	1.2	102	127.5	137.5	M6	2520	DX8-060-102127-125-K
6000	3000	9000	1.5	112	127.5	137.5	M6	3150	DX8-060-112127-155-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.

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 UPDATA : 2021-03-31

10000VDC, RATED VOLTAGE

VOLTAGE AT +85°C			CAP ⁽³⁾ μF	DIMENSIONS [mm]			TERMI- NAL	CURRENT I-PEAK ⁽²⁾ [A]	ORDERING CODE
VDC	V-RMS (VAC)	V -PEAK		D	L	T-T			
10000	5000	15000	0.1	53	127.5	137.5	M6	350	DX8-100-053127-104-K
10000	5000	15000	0.15	62	127.5	137.5	M6	525	DX8-100-062127-154-K
10000	5000	15000	0.22	72	127.5	137.5	M6	770	DX8-100-072127-224-K
10000	5000	15000	0.33	98	127.5	137.5	M6	1155	DX8-100-098127-334-K
10000	5000	15000	0.47	103	127.5	137.5	M6	1645	DX8-100-103127-474-K
10000	5000	15000	0.68	121	127.5	137.5	M6	2380	DX8-100-121127-684-K

20000VDC, RATED VOLTAGE

20000	6000	30000	0.022	52	145.5	155.5	M6	66	DX8-200-052145-223-K
20000	6000	30000	0.033	61	145.5	155.5	M6	99	DX8-200-061145-333-K
20000	6000	30000	0.047	70	145.5	155.5	M6	141	DX8-200-070145-473-K
20000	6000	30000	0.068	83	145.5	155.5	M6	204	DX8-200-083145-683-K
20000	6000	30000	0.1	99	145.5	155.5	M6	300	DX8-200-099145-104-K
20000	6000	30000	0.15	119	145.5	155.5	M6	450	DX8-200-119145-154-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.

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30000VDC, RATED VOLTAGE

VOLTAGE AT +85°C			CAP ⁽³⁾ μF	DIMENSIONS [mm]			TERMI- NAL	CURRENT I-PEAK ⁽²⁾ [A]	ORDERING CODE
VDC	V-RMS (VAC)	V -PEAK		D	L	T-T			
30000	7000	45000	0.01	48	189.5	199.5	M6	23	DX8-300-048189-103-K
30000	7000	45000	0.015	56	189.5	199.5	M6	34	DX8-300-056189-153-K
30000	7000	45000	0.022	65	189.5	199.5	M6	50	DX8-300-065189-223-K
30000	7000	45000	0.033	78	189.5	199.5	M6	74	DX8-300-078189-333-K
30000	7000	45000	0.047	92	189.5	199.5	M6	106	DX8-300-092189-473-K
30000	7000	45000	0.068	109	189.5	199.5	M6	153	DX8-300-109189-683-K

50000VDC, RATED VOLTAGE

50000	8000	75000	0.0022	45	193.5	203.5	M6	5	DX8-500-045193-222-K
50000	8000	75000	0.0033	52	193.5	203.5	M6	7	DX8-500-052193-332-K
50000	8000	75000	0.0047	59	193.5	203.5	M6	10	DX8-500-059193-472-K
50000	8000	75000	0.0068	69	193.5	203.5	M6	15	DX8-500-069193-682-K
50000	8000	75000	0.01	81	193.5	203.5	M6	22	DX8-500-081193-103-K
50000	8000	75000	0.015	99	193.5	203.5	M6	33	DX8-500-099193-153-K
50000	8000	75000	0.022	117	193.5	203.5	M6	48	DX8-500-117193-223-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.