

# DX6 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  
UPDATE : 2021-04-29



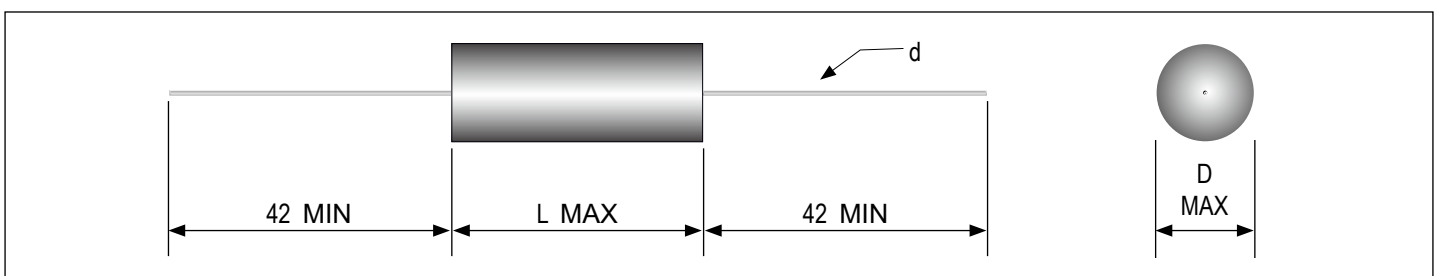
## MAIN CHARACTERISTICS:

- 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

## DIEMENSION



# DX6 HIGH VOLTAGE DC FILM CAPACITORS

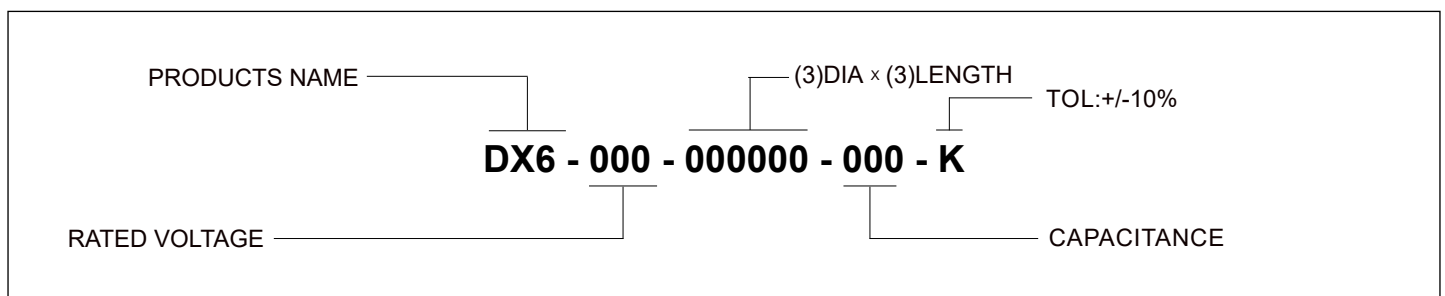


HIGH CURRENT METALLIZED POLYPROPYLENE  
WITH DOUBLE SIDE METALLIZED.

VOICE : +82-31-429-6379  
FAX : +82-31-429-9127  
E-MAIL : info@3RLab.com  
UPDATE : 2021-04-29

<b>DC VOLTAGE RANGE</b>	600~10000 V
<b>CAPACITANCE RANGE</b>	UP TO 6 $\mu$ F
<b>CAPACITANCE TOLERANCE (+25°C)</b>	STANDARD: $\pm$ 10% ON REQUEST $\pm$ 1%, $\pm$ 2%, $\pm$ 5%
<b>EQUVALENT SERIES RESISTANCE</b>	< 4.5 m $\Omega$
<b>MAXIMUM VOLTAGE RATE OF RISE(dV/dT)</b>	$\leq$ 2800 V/ $\mu$ S
<b>TERMINALS</b>	TINNED COPPER WIRE
<b>VOLTAGE TEST</b>	RATED VOLTAGE X 1.5 TIMES FOR 10 SECS
<b>WORKING &amp; STORAGE TEMPERATURE</b>	-25 / +85 °C
<b>CYLINDRICAL CASE AND FILLING</b>	EPOXY FILLING
<b>PROTECTIVE MECHANISM</b>	SELF HEALING
<b>LIFE EXPECTANCY</b>	100,000 HOURS TYP
<b>SOLDERING HEAT TEST</b>	TEMPERATURE = 260 $\pm$ 5°C FOR TIME = 10SECS
<b>DISSIPATION FACTOR</b>	DF VALUE $\leq$ 1%, MEASURED AT 25 $\pm$ 5°C, 1kHz

## ORDERING INFORMATION



ALL OF SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRENOTICE.



HIGH CURRENT METALLIZED POLYPROPYLENE  
WITH DOUBLE SIDE METALLIZED.

VOICE : +82-31-429-6379  
FAX : +82-31-429-9127  
E-MAIL : info@3RLab.com  
UPDATE : 2021-04-29

## 600VDC, RATED VOLTAGE

VOLTAGE AT +85°C			CAP <sup>(3)</sup>	DIMENSIONS[mm]			LEAD	CURRENT	ORDERING CODE
VDC	V-RMS (VAC)	V -PEAK	μF	D MAX	L MAX	d	AWG	I-PEAK <sup>(2)</sup> [A]	
600	275	950	0.1	11	38	0.8	20	50	DX6-006-011038-104-K
600	275	950	0.15	12	38	0.8	20	75	DX6-006-012038-154-K
600	275	950	0.22	14	38	0.8	20	110	DX6-006-014038-224-K
600	275	950	0.33	17	38	0.8	20	165	DX6-006-017038-334-K
600	275	950	0.47	20	38	0.8	20	235	DX6-006-020038-474-K
600	275	950	0.68	24	38	1	18	340	DX6-006-024038-684-K
600	275	950	1	28	38	1	18	500	DX6-006-028038-105-K
600	275	950	1.2	23	58	1	18	360	DX6-006-023058-125-K
600	275	950	1.5	25	58	1	18	450	DX6-006-025058-155-K
600	275	950	2	28	58	1.2	16	600	DX6-006-028058-205-K
600	275	950	2.2	29	58	1.2	16	660	DX6-006-029058-225-K
600	275	950	2.5	31	58	1.2	16	750	DX6-006-031058-255-K
600	275	950	3	34	58	1.2	16	900	DX6-006-034058-305-K
600	275	950	3.3	36	58	1.2	16	990	DX6-006-036058-335-K
600	275	950	3.7	38	58	1.2	16	1110	DX6-006-038058-375-K
600	275	950	4	39	58	1.2	16	1200	DX6-006-039058-405-K
600	275	950	4.7	40	58	1.2	16	1410	DX6-006-040058-475-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.

VOICE : +82-31-429-6379  
FAX : +82-31-429-9127  
E-MAIL : info@3RLab.com  
UPDATE : 2021-04-29

## 600VDC, RATED VOLTAGE

VOLTAGE AT +85°C			CAP <sup>(3)</sup>	DIMENSIONS[mm]			LEAD	CURRENT	ORDERING CODE
VDC	V-RMS (VAC)	V -PEAK	μF	D MAX	L MAX	d	AWG	I-PEAK <sup>(2)</sup> [A]	
600	275	950	5	43	58	1.2	16	1500	DX6-006-043058-505-K
600	275	950	5.6	45	58	1.2	16	1680	DX6-006-045058-565-K
600	275	950	6	47	58	1.2	16	1800	DX6-006-047058-605-K

## 800VDC, RATED VOLTAGE

800	400	1250	0.1	12	38	0.8	20	65	DX6-008-012038-104-K
800	400	1250	0.15	14	38	0.8	20	97.5	DX6-008-014038-154-K
800	400	1250	0.22	17	38	0.8	20	143	DX6-008-017038-224-K
800	400	1250	0.33	20	38	0.8	20	214.5	DX6-008-020038-334-K
800	400	1250	0.47	23	38	1	18	305.5	DX6-008-023038-474-K
800	400	1250	0.68	27	38	1	18	442	DX6-008-027038-684-K
800	400	1250	1	23	58	1	18	400	DX6-008-023058-105-K
800	400	1250	1.2	25	58	1	18	480	DX6-008-025058-125-K
800	400	1250	1.5	28	58	1.2	16	600	DX6-008-028058-155-K
800	400	1250	2	32	58	1.2	16	800	DX6-008-032058-205-K
800	400	1250	2.2	35	58	1.2	16	880	DX6-008-035058-225-K
800	400	1250	2.5	36	58	1.2	16	1000	DX6-008-036058-255-K
800	400	1250	3	39	58	1.2	16	1200	DX6-008-039058-305-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.

VOICE : +82-31-429-6379  
FAX : +82-31-429-9127  
E-MAIL : info@3RLab.com  
UPDATE : 2021-04-29

## 800VDC, RATED VOLTAGE

VOLTAGE AT +85°C			CAP <sup>(3)</sup>	DIMENSIONS[mm]			LEAD	CURRENT	ORDERING CODE
VDC	V-RMS (VAC)	V -PEAK	μF	D MAX	L MAX	d	AWG	I-PEAK <sup>(2)</sup> [A]	
800	400	1250	3.3	41	58	1.2	16	1320	DX6-008-041058-335-K
800	400	1250	3.7	43	58	1.2	16	1480	DX6-008-043058-375-K
800	400	1250	4	45	58	1.2	16	1600	DX6-008-045058-405-K

## 1000VDC, RATED VOLTAGE

1000	500	1550	0.1	13	38	0.8	20	82	DX6-010-013038-104-K
1000	500	1550	0.15	16	38	0.8	20	123	DX6-010-016038-154-K
1000	500	1550	0.22	18	38	0.8	20	180.4	DX6-010-018038-224-K
1000	500	1550	0.33	22	38	0.8	20	270.6	DX6-010-022038-334-K
1000	500	1550	0.47	26	38	1	18	385.4	DX6-010-026038-474-K
1000	500	1550	0.68	22	58	1	18	340	DX6-010-022058-684-K
1000	500	1550	1	25	58	1.2	16	500	DX6-010-025058-105-K
1000	500	1550	1.2	28	58	1.2	16	600	DX6-010-028058-125-K
1000	500	1550	1.5	31	58	1.2	16	750	DX6-010-031058-155-K
1000	500	1550	2	36	58	1.2	16	1000	DX6-010-036058-205-K
1000	500	1550	2.2	38	58	1.2	16	1100	DX6-010-038058-225-K
1000	500	1550	2.5	40	58	1.2	16	1250	DX6-010-040058-255-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.

VOICE : +82-31-429-6379  
FAX : +82-31-429-9127  
E-MAIL : info@3RLab.com  
UPDATE : 2021-04-29

## 1200VDC, RATED VOLTAGE

VOLTAGE AT +85°C			CAP <sup>(3)</sup>	DIMENSIONS[mm]			LEAD	CURRENT	ORDERING CODE
VDC	V-RMS (VAC)	V -PEAK	μF	D MAX	L MAX	d	AWG	I-PEAK <sup>(2)</sup> [A]	
1200	550	1800	0.047	11	38	0.8	20	47	DX6-012-011038-473-K
1200	550	1800	0.068	13	38	0.8	20	68	DX6-012-013038-683-K
1200	550	1800	0.1	15	38	0.8	20	100	DX6-012-015038-104-K
1200	550	1800	0.15	18	38	0.8	20	150	DX6-012-018038-154-K
1200	550	1800	0.22	21	38	0.8	20	220	DX6-012-021038-224-K
1200	550	1800	0.33	25	38	1	18	330	DX6-012-025038-334-K
1200	550	1800	0.47	21	58	1	18	282	DX6-012-021058-474-K
1200	550	1800	0.68	25	58	1	18	408	DX6-012-025058-684-K
1200	550	1800	1	30	58	1.2	16	600	DX6-012-030058-105-K
1200	550	1800	1.2	33	58	1.2	16	720	DX6-012-033058-125-K
1200	550	1800	1.5	37	58	1.2	16	900	DX6-012-037058-155-K
1200	550	1800	2	42	58	1.2	16	1200	DX6-012-042058-205-K
1200	550	1800	2.2	44	58	1.2	16	1320	DX6-012-044058-225-K

## 1600VDC, RATED VOLTAGE

1600	600	2400	0.033	11	38	0.8	20	44.55	DX6-016-011038-333-K
1600	600	2400	0.047	13	38	0.8	20	63.45	DX6-016-013038-473-K
1600	600	2400	0.068	15	38	0.8	20	91.8	DX6-016-015038-683-K
1600	600	2400	0.1	18	38	0.8	20	135	DX6-016-018038-104-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.

VOICE : +82-31-429-6379  
FAX : +82-31-429-9127  
E-MAIL : info@3RLab.com  
UPDATE : 2021-04-29

## 1600VDC, RATED VOLTAGE

VOLTAGE AT +85°C			CAP <sup>(3)</sup>	DIMENSIONS[mm]			LEAD	CURRENT	ORDERING CODE
VDC	V-RMS (VAC)	V -PEAK	μF	D MAX	L MAX	d	AWG	I-PEAK <sup>(2)</sup> [A]	
1600	600	2400	0.15	21	38	0.8	20	202.5	DX6-016-021038-154-K
1600	600	2400	0.22	26	38	1	18	297	DX6-016-026038-224-K
1600	600	2400	0.33	22	58	1	18	264	DX6-016-022058-334-K
1600	600	2400	0.47	26	58	1	18	376	DX6-016-026058-474-K
1600	600	2400	0.68	31	58	1.2	16	544	DX6-016-031058-684-K
1600	600	2400	1	36	58	1.2	16	800	DX6-016-036058-105-K
1600	600	2400	1.2	39	58	1.2	16	960	DX6-016-039058-125-K
1600	600	2400	1.5	43	58	1.2	16	1200	DX6-016-043058-155-K

## 2000VDC, RATED VOLTAGE

2000	650	3000	0.01	10	38	0.8	20	16.8	DX6-020-010038-103-K
2000	650	3000	0.015	11	38	0.8	20	25.2	DX6-020-011038-153-K
2000	650	3000	0.022	12	38	0.8	20	36.96	DX6-020-012038-223-K
2000	650	3000	0.033	13	38	0.8	20	55.44	DX6-020-013038-333-K
2000	650	3000	0.047	14	38	0.8	20	78.96	DX6-020-014038-473-K
2000	650	3000	0.068	18	38	0.8	20	114.24	DX6-020-018038-683-K
2000	650	3000	0.1	22	38	1	20	168	DX6-020-022038-104-K
2000	650	3000	0.15	26	38	1	20	252	DX6-020-026038-154-K
2000	650	3000	0.22	32	38	1	20	220	DX6-020-032038-224-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.

VOICE : +82-31-429-6379  
FAX : +82-31-429-9127  
E-MAIL : info@3RLab.com  
UPDATE : 2021-04-29

## 2000VDC, RATED VOLTAGE

VOLTAGE AT +85°C			CAP <sup>(3)</sup> μF	DIMENSIONS[mm]			LEAD AWG	CURRENT I-PEAK <sup>(2)</sup> [A]	ORDERING CODE
VDC	V-RMS (VAC)	V -PEAK		D MAX	L MAX	d			
2000	650	3000	0.33	25	60	1.2	18	330	DX6-020-025060-334-K
2000	650	3000	0.47	29	60	1.2	18	470	DX6-020-029060-474-K
2000	650	3000	0.68	35	60	1.2	16	680	DX6-020-035060-684-K
2000	650	3000	1	41	60	1.2	16	1000	DX6-020-041060-105-K

## 3000VDC, RATED VOLTAGE

3000	750	4500	0.01	10	38	0.8	20	21	DX6-030-010038-103-K
3000	750	4500	0.015	12	38	0.8	20	31.5	DX6-030-012038-153-K
3000	750	4500	0.022	14	38	0.8	20	46.2	DX6-030-014038-223-K
3000	750	4500	0.033	17	38	0.8	20	69.3	DX6-030-017038-333-K
3000	750	4500	0.047	20	38	0.8	18	98.7	DX6-030-020038-473-K
3000	750	4500	0.068	25	38	1	18	142.8	DX6-030-025038-683-K
3000	750	4500	0.1	21	61	1	18	125	DX6-030-021061-104-K
3000	750	4500	0.15	25	61	1	18	187.5	DX6-030-025061-154-K
3000	750	4500	0.22	30	61	1.2	16	275	DX6-030-030061-224-K
3000	750	4500	0.33	37	61	1.2	16	412.5	DX6-030-037061-334-K
3000	750	4500	0.47	44	61	1.2	16	587.5	DX6-030-044061-474-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 CURRENT METALLIZED POLYPROPYLENE  
WITH DOUBLE SIDE METALLIZED.

VOICE : +82-31-429-6379  
FAX : +82-31-429-9127  
E-MAIL : info@3RLab.com  
UPDATE : 2021-04-29

## 4000VDC, RATED VOLTAGE

VOLTAGE AT +85°C			CAP <sup>(3)</sup>	DIMENSIONS[mm]			LEAD	CURRENT	ORDERING CODE
VDC	V-RMS (VAC)	V -PEAK	μF	D MAX	L MAX	d	AWG	I-PEAK <sup>(2)</sup> [A]	
4000	800	6000	0.0047	11	38	0.8	20	12.22	DX6-040-011038-472-K
4000	800	6000	0.0068	13	38	0.8	20	17.68	DX6-040-013038-682-K
4000	800	6000	0.01	15	38	0.8	20	26	DX6-040-015038-103-K
4000	800	6000	0.015	20	38	0.8	20	39	DX6-040-020038-153-K
4000	800	6000	0.022	24	38	0.8	20	57.2	DX6-040-024038-223-K
4000	800	6000	0.033	17	61	1	18	51.15	DX6-040-017061-333-K
4000	800	6000	0.047	19	61	1	18	72.85	DX6-040-019061-473-K
4000	800	6000	0.068	23	61	1	18	105.4	DX6-040-023061-683-K
4000	800	6000	0.1	28	61	1.2	16	155	DX6-040-028061-104-K
4000	800	6000	0.15	33	61	1.2	16	232.5	DX6-040-033061-154-K
4000	800	6000	0.22	40	61	1.2	16	341	DX6-040-040061-224-K

## 6000VDC, RATED VOLTAGE

6000	850	9000	0.0047	11	61	0.8	20	9.4	DX6-060-011061-472-K
6000	850	9000	0.0068	14	61	0.8	20	13.6	DX6-060-014061-682-K
6000	850	9000	0.01	16	61	0.8	20	20	DX6-060-016061-103-K
6000	850	9000	0.015	19	61	0.8	20	30	DX6-060-019061-153-K
6000	850	9000	0.022	22	61	0.8	20	44	DX6-060-022061-223-K
6000	850	9000	0.033	27	61	0.8	20	66	DX6-060-027061-333-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.

VOICE : +82-31-429-6379  
FAX : +82-31-429-9127  
E-MAIL : info@3RLab.com  
UPDATE : 2021-04-29

## 6000VDC, RATED VOLTAGE

VOLTAGE AT +85°C			CAP <sup>(3)</sup>	DIMENSIONS[mm]			LEAD	CURRENT	ORDERING CODE
VDC	V-RMS (VAC)	V -PEAK	μF	D MAX	L MAX	d	AWG	I-PEAK <sup>(2)</sup> [A]	
6000	850	9000	0.047	31	61	1	18	94	DX6-060-031061-473-K
6000	850	9000	0.068	36	61	1	18	136	DX6-060-036061-683-K
6000	850	9000	0.1	42	61	1.2	16	200	DX6-060-042061-104-K
6000	850	9000	0.15	34	93	1.2	16	300	DX6-060-034093-154-K
6000	850	9000	0.22	41	93	1.2	16	214.5	DX6-060-041093-224-K

## 10000VDC, RATED VOLTAGE

10000	1000	15000	0.001	10	61	0.8	20	2.8	DX6-100-010061-102-K
10000	1000	15000	0.0022	12	61	0.8	20	6.16	DX6-100-012061-222-K
10000	1000	15000	0.0033	14	61	0.8	20	9.24	DX6-100-014061-332-K
10000	1000	15000	0.0047	16	61	0.8	20	13.16	DX6-100-016061-472-K
10000	1000	15000	0.0068	19	61	0.8	20	19.04	DX6-100-019061-682-K
10000	1000	15000	0.01	23	61	0.8	20	28	DX6-100-023061-103-K
10000	1000	15000	0.015	27	61	0.8	20	42	DX6-100-027061-153-K
10000	1000	15000	0.022	32	61	1	18	61.6	DX6-100-032061-223-K
10000	1000	15000	0.033	40	61	1	18	92.4	DX6-100-040061-333-K
10000	1000	15000	0.047	32	93	1	18	63.45	DX6-100-032093-473-K
10000	1000	15000	0.068	37	93	1.2	16	91.8	DX6-100-037093-683-K
10000	1000	15000	0.1	44	93	1.2	16	135	DX6-100-044093-104-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.