



**Wuxi CRE New Energy Technology Co., Ltd.** - специализируется на разработке и производстве высококачественных пленочных конденсаторов.

Основана в 2011 году.

Производственная площадь более 10 000 квадратных метров.

Количество сотрудников компании - более 500 человек.



## ОБРАЗЦЫ ПЛЕНОЧНЫХ МЕТАЛЛИЗИРОВАННЫХ КОНДЕНСАТОРОВ ПОД ВАШ ПРОЕКТ

**Заказать образцы, запросить документацию и задать все интересующие вопросы, связанные с применением высоковольтных контакторов, Вы можете нашим техническим специалистам и менеджерам:**

e-mail: [epcos@ferrite.ru](mailto:epcos@ferrite.ru)

тел.: +7 (812) 740 53 05, +7 (812) 740 53 06



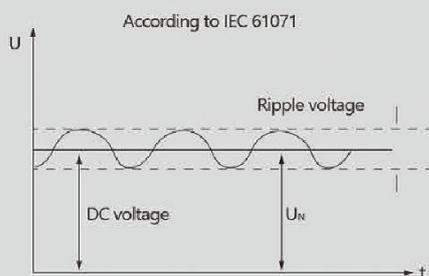
## 1. Rated capacitance $C_N$

Designed capacitance of the capacitor at 20°C/100HZ.

## 2. Rated voltage $U_N$

Rated AC voltage  $U_{NAC}$ : repeatedly used in the design capacitor waveform either polarity, the maximum operating peak cycle voltage.

Rated DC voltage of the  $U_{NDC}$ : polarity in any of the non-repetitive waveform used in the design capacitor continuous operation of the maximum operating peak voltage.



## 3. Rms voltage $U_{rms}$

Root mean square of max. permissible value of sinusoidal a.c. Voltage in continuous operation.

## 4. Ripple voltage $U_r$

Peak-to-peak alternating component of the unidirectional voltage. In general, the square of the ripple voltage rms should be less than 10% of the rated voltage.

## 5. Non-recurrent surge voltage $U_s$

Peak voltage induced by switching or any other disturbance of the system which is allowed for a limited number of times and for durations shorter than the basic period.

## 6. Voltage test between terminals $U_t-t$

Routine test of all capacitors conducted at room temperature, prior to delivery. A further test with 80% of the test voltage stated in the data sheet may be carried out once at the user's location.

## 7. Voltage test between terminals and case $U_t-c$

Routine test of all capacitors between short-circuited terminals and case, conducted at room temperature. May be repeated at the user's location.

## 8. Insulation voltage $U_i$

When designing capacitor terminals on the shell or root value of ac voltage of the party. If not stated, that insulation voltage is equal to the rated voltage (DC) divided by the square root of  $\sqrt{2}$ ; Or equal to rated voltage (AC)

## 9. Maximum current $I_{max}$

Maximum rms current for continuous operation.

## Maximum peak current $\hat{I}$

Maximum permitted repetitive peak current that can occur during continuous operation. The value is following:  $\hat{I} = C_N \times (dv/dt)$  Where  $dv/dt$  indicates rate of voltage rise, which means maximum permitted repetitive rate of voltage rise of operational voltage usually using instead of  $\hat{I}$ .

## 11. Maximum surge current $I_s$

Peak non-repetitive current induced by switching or any other disturbance of the system which is allowed for a limited number of times, for durations shorter than basic period.

## 12. Equivalent series resistance ESR

Effective resistance which, if connected in series with an ideal capacitor of capacitance value equal to that of the capacitor in question, would have a power loss equal to active power dissipated in that capacitor under specified operating conditions.

## 13. Dielectric dissipation factor $tg\delta_0$

Constant dissipation factor of the dielectric material for all capacitors at their rated frequency. The typical loss factor of polypropylene film is  $2 \times 10^{-4}$ .

## 14. Loss factor of the capacitor $tg\delta$

The dissipation factor is ratio between reactive power of the impedance of the capacitor and effective power when capacitor is submitted to a sinusoidal voltage of specified frequency. It is that ratio between the equivalent series resistance and the capacitive reactance of a capacitor.

## 15. Dielectric power loss $P_d$

Loss power induced by dielectric polarization or dielectric conductance.

The value is following:

$$P_d = \hat{U}^2 \times \pi \times f_0 \times C_N \times tg\delta_0$$

Where, for DC capacitors:  $\hat{U} = U_r / 2$

for AC capacitors:  $\hat{U} = U_{rms}$

for GTO snubber capacitors:  $\hat{U} = \sqrt{2} \times U_{NDC}$

$f_0$ : fundamental frequency

$C_N$ : capacitance

## 16. Joule power loss $P_j$

Loss power induced by series resistance of the capacitor under rms current.

The value is following:  $P_j = I_{rms}^2 \times R_s$

## 17. Capacitor losses $P_t$

Active power dissipated in the capacitor, consists of dielectric loss and joule loss, i.e.  $P_t = P_d + P_j = I_{rms}^2 \times ESR$ .

## 18. Self-inductance $L_s$

Represents the sum of all inductive elements which are for mechanical and construction reasons-contained in any capacitor.

## 19. Resonance frequency $F_r$

Lowest frequency at which the impedance of the capacitor becomes minimum. The value is Following:  $F_r = 1 / (2\pi \times \sqrt{L_s \times C_N})$ .

## 20. Operating temperature $\theta$

Temperature of the hottest point on the case of the operating capacitor in thermal equilibrium.

## 21. Maximum operating temperature $\theta_{max}$

Highest temperature of the case at which the capacitor may be operated.

## 22. Lowest operating temperature $\theta_{min}$

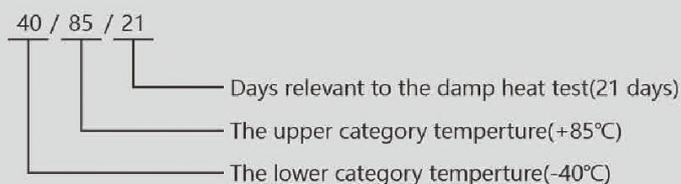
Lowest temperature of the dielectric at which the capacitor may be operated.

## 23. Thermal resistance $R_{th}$

The thermal resistance indicates by how many degrees the capacitor temperature at the hotspot rises above  $\theta_{amb}$  per watt of the heat dissipation loss.

## 24. Climatic category

The climatic category which the capacitor belongs to is expressed in three numbers separated by slashes, (IEC60068-1:40/85/21).



## 25. Insulation Resistance (IR)/Time Constant(t)

Of insulation resistance for the capacitor charging and the ratio of dc voltage and flowing through the capacitor leakage current value (usually) time for 1 minute, the unit is  $M\Omega$ . Time constant is the product of the insulation resistance and capacitance, usually expressed in seconds,

Formula is as follows:  $t[s] = IR[M\Omega] \times C[\mu F]$ .

Under normal circumstances, the insulation resistance is used to describe the small capacity of capacitor insulating properties, the time constant is used to describe large capacity (such as:  $C_n > 0.33\mu F$ ) capacitor insulation characteristics.

## 26. Self-healing (Only for metallized film capacitor)

The metal coatings of the metallized film, which are vacuum-deposited directly onto the plastic film, have a thickness of dozens of nanometers. At weak points or impurities in the dielectric, a dielectric breakdown would occur. The energy released by the arc discharge in the breakdown channel is sufficient to totally evaporate the thin metal coating in the vicinity of the channel. The insulated region thus resulting around the former faulty area will cause the capacitor to regain its full operability.

## 27. Hotspot temperature $\theta_{hs}$

Temperature at the hottest spot inside the capacitor.

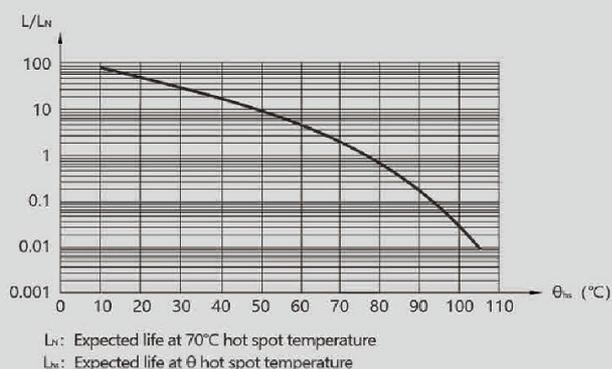
The value is following:  $\theta_{hs} = \theta_{amb} + P_t \times R_{th}$  or  $\theta_{hs} = \theta_{case} + P_t \times R_{thc}$ .

## 28. Maximum current $I_{max}$

It indicates the failure probability of components in unit time and the value is the number of failure components in unit time compared to the total number of components. The unit of  $\lambda$  is FIT (also expressed as Fit or fit) and  $1FIT = 1 / (10^9 \text{ hrs})$ . For example, 10000 pcs of components work at given conditions for 10000 hrs and 10 pcs of components failed, so  $\lambda = 10 / (10000 \times 10000) = 100FIT$ .

## 29. Expected lifetime of the capacitor

The expected lifetime of the capacitor depends on the applied voltage and the hot spot temperature during operation. For capacitors applied in different situations, the designed average service lives are different. Generally speaking, capacitors used in DC-link circuits will have an expected lifetime of probable 10000 hrs at rated voltage and 70°C hot spot temperature. Expected lifetime is a statistical value calculated on the basis of experience and on the theoretical evaluations. The following diagrams show the correlation between expected life, operating voltage and hot spot temperature. The diagrams should be considered only as a theoretical reference. Please consult our technical department in case of working condition different from the rated ones.



# ТЕРМИНОЛОГИЯ И ТЕХНИЧЕСКАЯ ИНФОРМАЦИЯ

## 1. Operation voltage

The plastic film capacitor varies in the maximum applicable voltage depending on the applied voltage waveform, current waveform, frequency, ambient temperature (capacitor surface temperature), capacitance value, etc. Before use, please check whether the voltage waveform, current waveform and frequency at both ends of the capacitor (in high frequency applications, the allowable voltage varies with the type of capacitor, please refer to the instruction manual for details) whether it is within the rated value.

## 2. Operating current

The pulse ( or AC ) current flowing through the capacitor is expressed as:  $I = C \times dv / dt$ . Due to the fact that dissipation factor will generate the internal heat under the application of high frequency or high pulse current, temperature rise in it will occur and may cause deterioration of with standing voltage, even lead to break down ( smoking or firing ). Therefore, the safety use of capacitor must be within the rated voltage ( or category voltage ) and the permissible current. The operating current must be considered by dividing into pulse current ( peak current ) and continuous current ( rms current ) depending on the break down mode, and when using, should make sure the both currents are within the permissible values.

## 4. Contained temperature rise ( $\Delta\theta_{case}$ )

When continuing current flows through the capacitor, the temperature inside the capacitor will rise, induced by accumulated heat. If the temperature exceeds allowed hot-spot temperature, it might cause a short circuit or fire. Therefore, the current flowing through the capacitor must not exceed the maximum value specified in the catalog, and it is necessary to monitor the temperature rise of the capacitor when it is loaded.

## 9. Storage conditions

1. Capacitors may not be stored in corrosive atmospheres, particularly not when chlorides, sulfides, acids, lye, salts, organic solvents or similar substances are present.

2. It shouldn't be located in particularly high temperature and high humidity, it must submit to the following conditions ( unchanging primal package ) :

Temperature:  $\leq 35^{\circ}\text{C}$

Humidity:  $\leq 80\% \text{ RH}$ , no dew allowed on the capacitor.

Storage time:  $\leq 24$  months ( from the date marked on the capacitor's body or the label glued to the package )

## 5. Charging and discharging

Because the charging and discharging current of capacitor is obtained by the product of voltage rise rate (  $dv / dt$  ) and capacitance, low voltage charging and discharging may also cause deterioration of capacitor such as shorting and open due to sudden charging and discharging current. When charging and discharging, pass through a resistance of  $20\Omega / V$  or more to limit current. When connecting multiple film capacitors in parallel in withstand voltage test or life test, connect a resistance of  $20\Omega / V$  to  $1000\Omega / V$  or more in series to each capacitor. ( For detail see the specification ) In additional, capacitors must be discharged with resistor before handling. Because the capacitor hasn't discharge resistor inside, so there is residual but maybe deathful electric energy contained.

## 6. Buzzing noise

Any buzzing noise produced by capacitor is caused by the vibration of the film due to coulomb force that is generated between the electrodes with opposite poles. of the waveform with a high distortion rate or frequency is applied across the capacitor, the buzzing noise will become louder. But the buzzing noise is of no damage to capacitor.

## 7. Flame retardation

Although flame retardation epoxy resin or plastic case is used in the coating or encapsulating of plastic film capacitor, continuous outer high temperature for firing will break the coating layer or plastic case of the capacitor, and may lead to melting and firing of the capacitor element.

## 8. Humid ambient

If used for long time in a humid ambient, the capacitor might absorb humidity and oxidise the electrodes causing breakage of the capacitor. If case of Application, high humidity would increase the corona effect. This phenomenon causes a drop of capacitance and an increase of capacitor losses.

## 3. Calculation of rms in various waveforms

In each waveform, calculate the rms value in the following formula.

type	1	2	2	3
waveform				
rms	$E / \sqrt{2}$	$E / \sqrt{2}$	$E \sqrt{t / (2T)}$	$E / \sqrt{3}$
type	5	6	7	8
waveform				
rms	$E \sqrt{t / (3T)}$	$E$	$E \sqrt{t / T}$	$\sqrt{\frac{1}{T} (E_1^2 + E_2^2 + E_3^2 + E_4^2)}$

# МЕТАЛЛОПЛЕНОЧНЫЕ DC-Link КОНДЕНСАТОРЫ. СЕРИЯ DKMJ-S

Copper nut/screw leads,  
easy installation

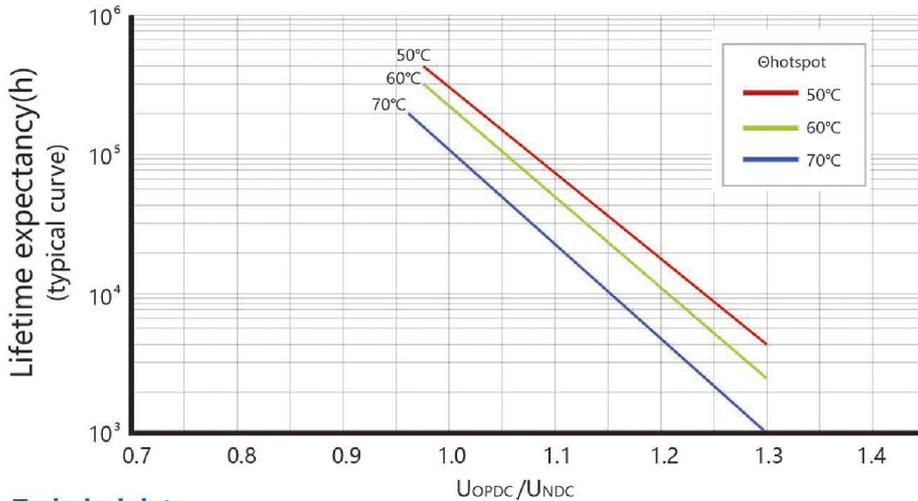
Resistance to high voltage,  
with self-healing

Metal shell encapsulation,  
dry resin infusion

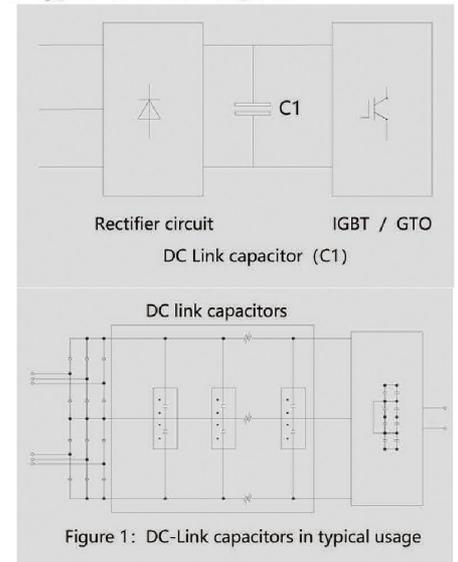
High ripple current, high dv/dt  
withstand capability

Large capacity, small size

## Life expectancy in the graph



## Typical circuit diagram



## Technical data

Operating temperature range	Max. Operating temperature, $T_{op,max}$ : +70°C Upper category temperature: +60°C Lower category temperature: -40°C	
( $C_N$ ) /Capacitance range	100µF ~ 20000µF	
( $U_N$ ) /Rated voltage	600V.DC ~ 4000V.DC	
Cap.tol	±5% (J) ; ±10% (K)	
Withstand voltage	Vt-t	1.5U <sub>N</sub> DC/60s
	Vt-c	$1000 + 2 \times U_N / \sqrt{2}$ (V.AC) 60s (min 3000V.AC)
Over voltage	1.1U <sub>N</sub> (30% of on-load-dur.)	
	1.15U <sub>N</sub> (30min/day)	
	1.2U <sub>N</sub> (5min/day)	
	1.3U <sub>N</sub> (1min/day)	
	1.5U <sub>N</sub> (100ms every time, 1000times during the lifetime)	
Dissipation factor	tgδ ≤ 0.003 f = 100Hz	
	tgδ <sub>10</sub> ≤ 0.0002	
Insulation resistance	(Built-in discharge resistor) (Actual measurement)	
Withstand strike current	See the specification sheet	
I <sub>rms</sub>	See the specification sheet	
ESL	< 150nH	
Flame retardation	UL94V-0	

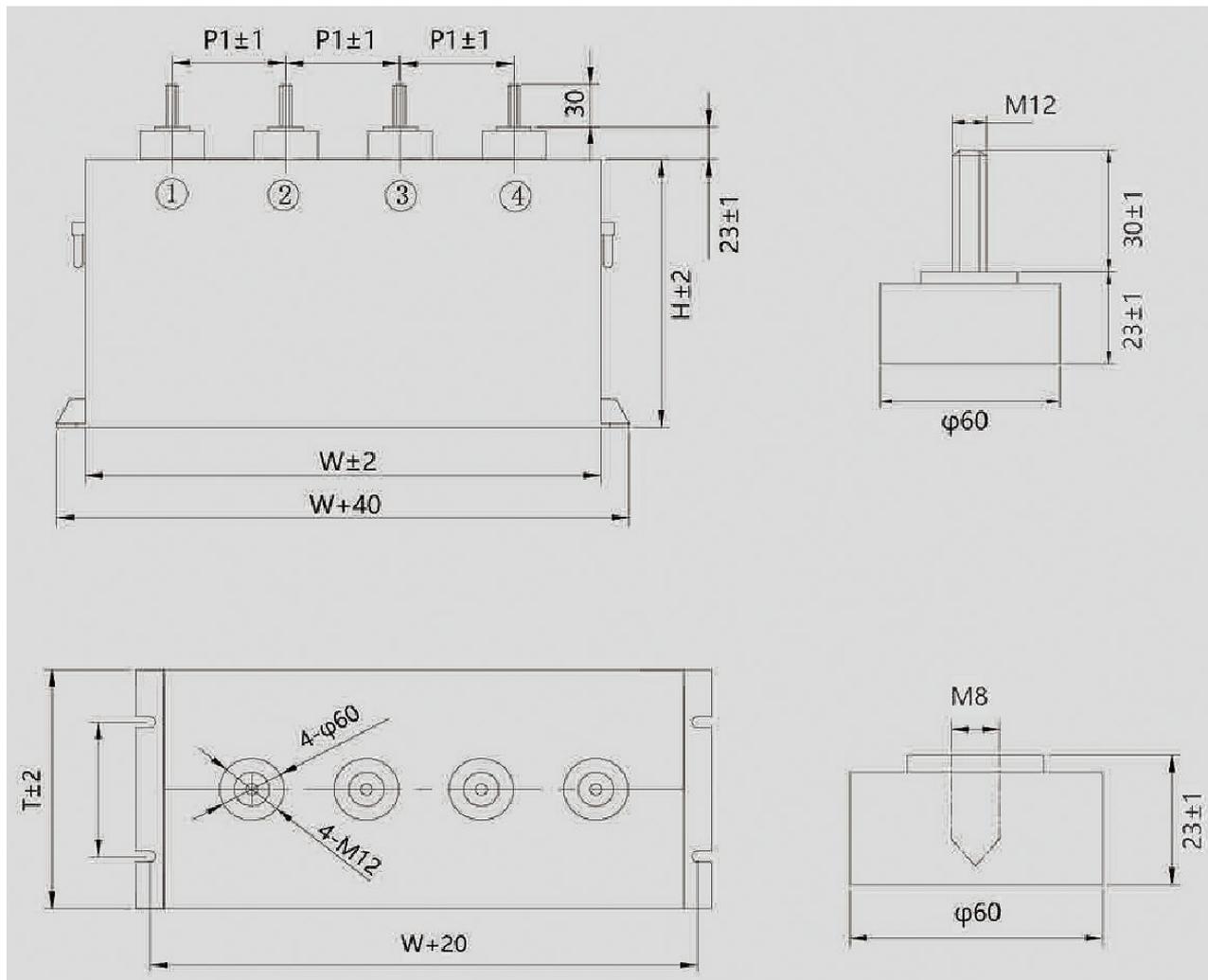
## Application

- Widely used in DC-link circuit for filtering energy storage.
- Can replace electrolytic capacitors, better performance and longer life.
- Pv inverter; wind power converter; All kinds of frequency converter and inverter power supply; Pure electric and hybrid cars; SVG, SVC devices and other kinds of power quality management.

# МЕТАЛЛОПЛЕНОЧНЫЕ DC-Link КОНДЕНСАТОРЫ. СЕРИЯ DKMJ-S

## Technical data

Maximum altitude	2000m Derating should be considered when the altitude is between 2000m -5000m. (For each increase of 1000m, voltage and current will be reduced by 10%)
Life expectancy	100000h( $U_N; \theta_{\text{hotspot}} \leq 70^\circ\text{C}$ )
Reference standard	IEC61071;IEC61881

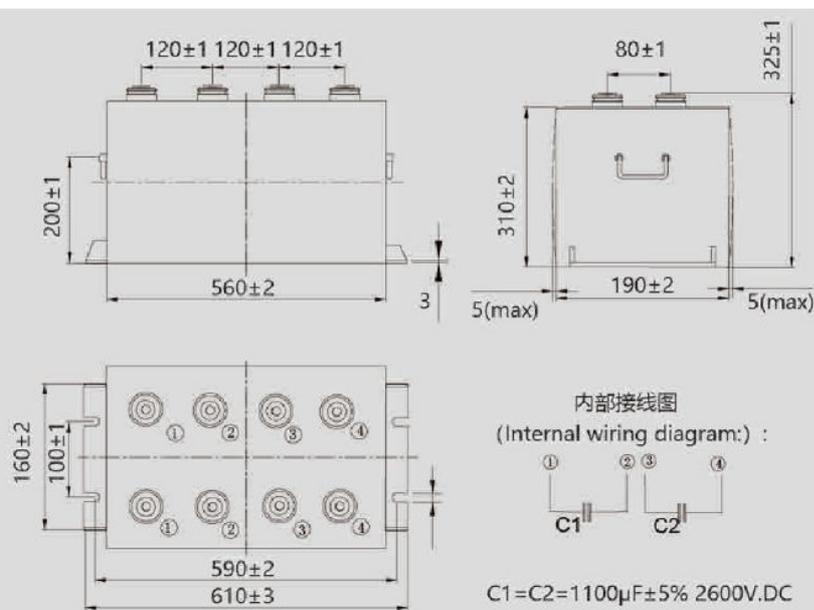


## Specification table

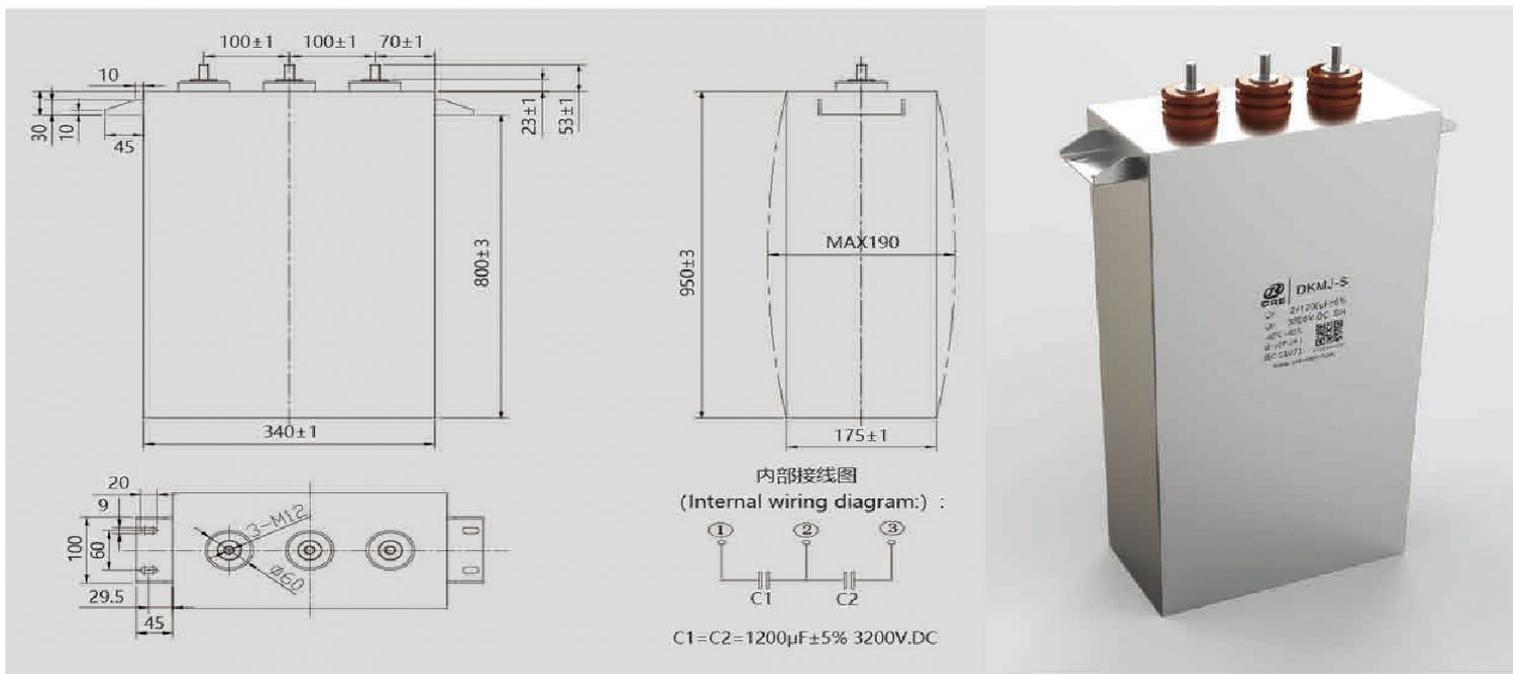
$C_N$ ( $\mu\text{F}$ )	W (mm)	T (mm)	H (mm)	dv/dt (V/ $\mu\text{S}$ )	$I_p$ (kA)	$I_{\text{rms}}$ @10kHz50°C (A)	ESR @1kHz (m $\Omega$ )	$R_{\text{th}}$ (K/W)	Weight $\approx$ (kg)
$U_N$ 800V.DC $U_s$ 1200V $U_r$ 200V									
4000	340	125	190	5	20.0	120	1.1	0.9	17.6
8000	340	125	350	4	32.0	180	0.72	0.6	31.2
6000	420	125	245	5	30.0	150	0.95	0.7	26.4
10000	420	125	350	4	40.0	200	0.72	0.5	37.9
12000	420	215	245	4	48.0	250	0.9	0.3	44.8
20000	420	235	350	3	60.0	300	0.6	0.3	70.9
$U_N$ 1200V.DC $U_s$ 1800V $U_r$ 300V									
3300	340	125	245	8	26.4	150	0.95	0.7	22.4
5000	420	125	300	7	35.0	180	0.8	0.6	32.8
7500	420	125	430	5.5	41.3	200	0.66	0.6	44.8
5000	340	235	190	8	40.0	200	1.1	0.3	32.8
10000	340	235	350	6	60.0	250	0.8	0.3	58.4

## Specification table

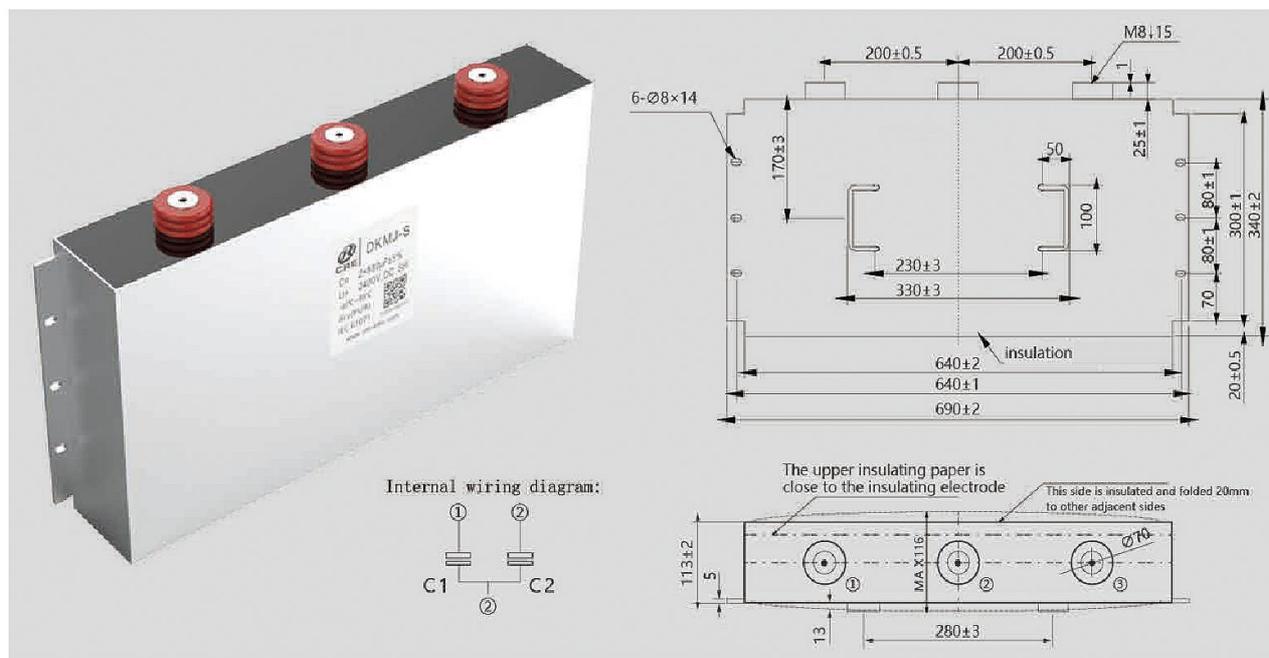
$C_N$ ( $\mu\text{F}$ )	W (mm)	T (mm)	H (mm)	dv/dt (V/ $\mu\text{s}$ )	$I_p$ (kA)	$I_{rms}$ @10kHz50°C (A)	ESR @1kHz (m $\Omega$ )	Rth (K/W)	Weight $\approx$ (kg)
<b><math>U_N</math> 1200V.DC <math>U_S</math> 1800V <math>U_r</math> 300V</b>									
5000	420	215	170	8	40.0	200	1	0.4	32
7500	420	215	235	7	52.5	250	0.9	0.3	43
10000	420	215	300	7	70.0	250	0.8	0.3	55.8
15000	420	215	430	5	75.0	300	0.6	0.3	76.9
<b><math>U_N</math> 1500V.DC <math>U_S</math> 2250V <math>U_r</math> 450V</b>									
1200	340	105	220	10	12.0	120	1.1	0.9	17.1
3000	340	115	430	8	24.0	180	0.66	0.7	34.8
2000	420	115	240	10	20.0	150	0.95	0.7	23.8
4000	420	115	430	8	32.0	200	0.66	0.6	41.2
5000	340	235	350	8	40.0	250	0.8	0.3	58.4
4000	420	215	235	10	40.0	250	0.9	0.3	43.5
8000	420	215	430	8	64.0	300	0.6	0.3	76.9
<b><math>U_N</math> 2000V.DC <math>U_S</math> 3000V <math>U_r</math> 600V</b>									
1000	340	125	245	12	12.0	150	0.95	0.7	22.4
1500	340	125	350	10	15.0	180	0.72	0.6	31.2
2000	420	125	360	10	20.0	200	0.72	0.5	39.2
2400	420	125	430	9	21.6	200	0.66	0.6	44.8
3200	340	235	350	10	32.0	250	0.8	0.3	46.4
4000	420	235	360	10	40.0	280	0.7	0.3	58.4
4800	420	235	430	9	43.2	300	0.6	0.3	67.2
<b><math>U_N</math> 2200V.DC <math>U_S</math> 3300V <math>U_r</math> 600V</b>									
2000	420	235	245	12	24.0	150	0.9	0.7	40
2750	420	235	300	10	27.5	200	0.8	0.5	49.6
3500	420	235	360	10	35.0	200	0.7	0.5	58.4
<b><math>U_N</math> 3000V.DC <math>U_S</math> 4500V <math>U_r</math> 800V</b>									
1050	420	235	245	20	21.0	150	0.9	0.7	40
1400	420	235	300	15	21.0	200	0.8	0.5	49.6
1800	420	235	360	15	27.0	200	0.7	0.5	58.4
<b><math>U_N</math> 4000V.DC <math>U_S</math> 6000V <math>U_r</math> 1000V</b>									
600	420	235	245	20	12.0	150	0.9	0.7	40
800	420	235	300	20	16.0	200	0.8	0.5	49.6
1000	420	235	360	20	20.0	200	0.7	0.5	58.4



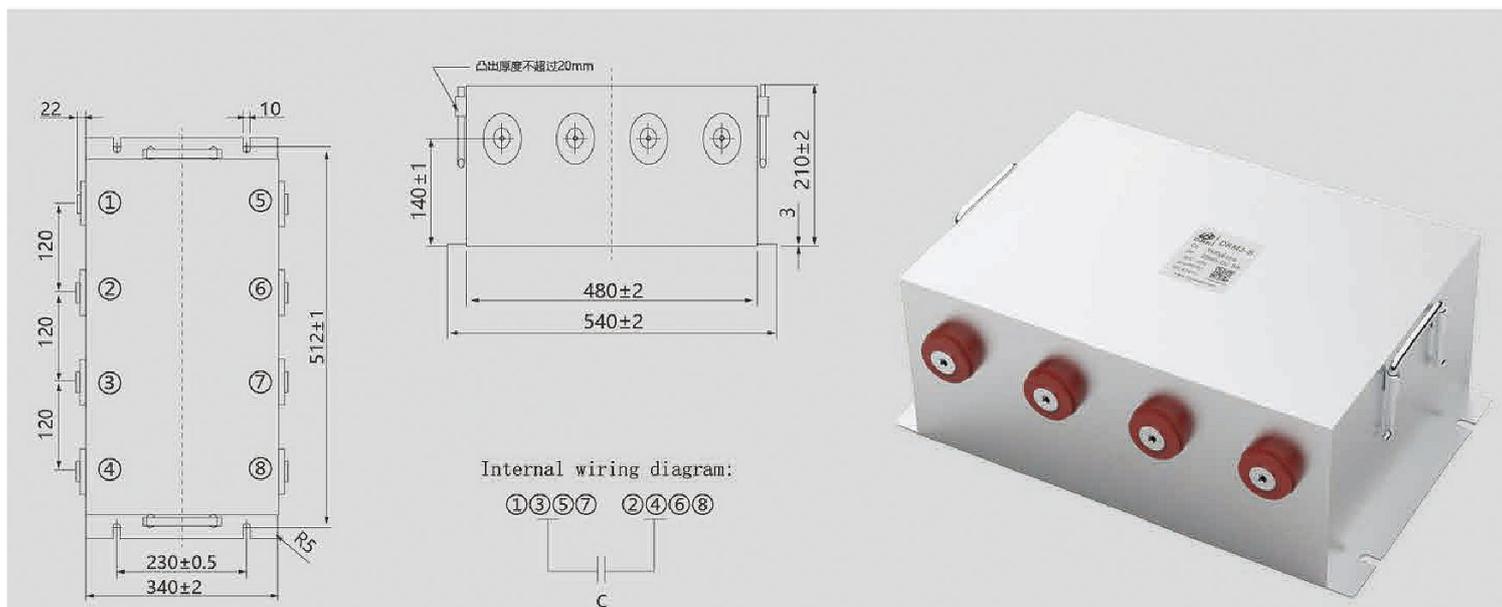
Operating temperature range	-40°C ~ 85°C	
Storage temperature range	-40°C ~ 85°C	
(U <sub>N</sub> ) /Rated voltage	2600V.DC	
(C <sub>N</sub> ) /Rated capacitance	2×1100µF	
Cap.tol	±5% (J)	
Withstand voltage	Vt-t	1.5U <sub>N</sub> /10s (20°C±5°C)
	Vt-c	6000V.AC/10s (50Hz, 20°C±5°C)
Dissipation factor	tgδ≤0.003 f=100Hz	
	tgδ <sub>0</sub> ≤0.0002	
Insulation resistance	R <sub>s</sub> ×C≥10000s (at20°C 100V.DC 60s)	
ESR	0.6mΩ(1kHz)	
L <sub>s</sub>	≤120nH	
R <sub>th</sub>	0.8K/W	
Max.current I <sub>rms</sub>	2×300A (50°C)	
Nonrecurrent surge voltage(U <sub>s</sub> )	3900V.DC	
Maximum peak current(I <sub>p</sub> )	2×11kA	
Maximum surge current(I <sub>s</sub> )	2×33kA	
Failure quota	≤100fit	
Life expectancy	≥100000h (U <sub>N</sub> ; θ <sub>hotspot</sub> ≤70°C)	
Reference standard	IEC61071; IEC61881	
Weight	≈60kg	
Dimension	560mm×190mm×310mm	



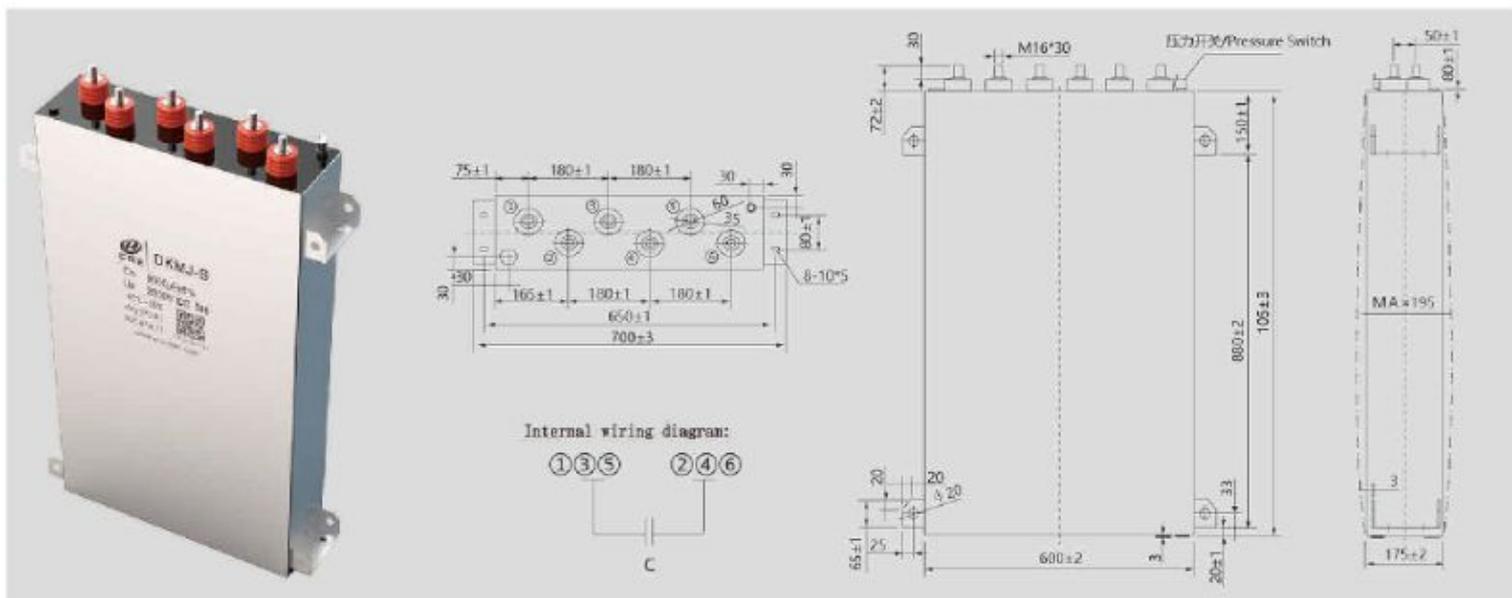
Operating temperature range	-40°C ~ 85°C	
Storage temperature range	-40°C ~ 85°C	
(U <sub>N</sub> ) /Rated voltage	3200V.DC	
(C <sub>N</sub> ) /Rated capacitance	2×1200µF	
Cap.tol	±5% (J)	
Withstand voltage	Vt-t	1.5U <sub>N</sub> /10s (20°C±5°C)
	Vt-c	6000V.AC/10s (50Hz, 20°C±5°C)
Dissipation factor	tgδ≤0.003 f=100Hz	
	介质损耗 tgδ <sub>0</sub> ≤0.0002	
Insulation resistance	R <sub>s</sub> ×C≥10000s (at20°C 100V.DC 60s)	
ESR	0.5mΩ(1kHz)	
L <sub>s</sub>	≤150nH	
R <sub>th</sub>	0.7K/W	
Max.current Irms	2×300A (50°C)	
Nonrecurrent surge voltage(Us)	4800V.DC	
Maximum peak current(I <sub>1</sub> )	2×12kA	
Maximum surge current(Is)	2×24kA	
Failure quota	≤100fit	
Life expectancy	≥100000h (U <sub>N</sub> ; θ <sub>hotspot</sub> ≤70°C)	
Reference standard	IEC61071; IEC61881	
Weight	≈95kg	
Dimension	340mm×175mm×950mm	



Operating temperature range	-40°C ~ 85°C	
Storage temperature range	-40°C ~ 85°C	
(U <sub>N</sub> ) /Rated voltage	2400V.DC	
(C <sub>N</sub> ) /Rated capacitance	2×880μF	
Cap.tol	±5% (J)	
Withstand voltage	Vt-t	1.5U <sub>N</sub> /10s (20°C±5°C)
	Vt-c	10000V.AC/60s (50Hz, 20°C±5°C)
Dissipation factor	tgδ≤0.003 f=100Hz	
	tgδ <sub>0</sub> ≤0.0002	
Insulation resistance	R <sub>s</sub> ×C≥10000s (at20°C 100V.DC 60s)	
ESR	0.6mΩ(1kHz)	
L <sub>s</sub>	≤50nH	
R <sub>th</sub>	2.5K/W	
Max.current I <sub>rms</sub>	2×150A (70°C)	
Nonrecurrent surge voltage(U <sub>s</sub> )	3600V.DC	
Maximum peak current(İ)	2×13.2kA	
Maximum surge current(I <sub>s</sub> )	2×39.6kA	
Failure quota	≤100fit	
Life expectancy	≥100000h (U <sub>N</sub> ; θ <sub>hotspot</sub> ≤70°C)	
Reference standard	IEC61071; IEC61881	
Weight	≈45kg	
Dimension	640mm×113mm×340mm	



Operating temperature range	-40°C ~ 85°C	
Storage temperature range	-40°C ~ 85°C	
(U <sub>N</sub> ) /Rated voltage	2000V.DC	
(C <sub>N</sub> ) /Rated capacitance	3500μF	
Cap.tol	±5% (J)	
Withstand voltage	Vt-t	1.5U <sub>N</sub> /10s (20°C±5°C)
	Vt-c	10000V.AC/60s (50Hz, 20°C±5°C)
Dissipation factor	tgδ≤0.003 f=100Hz	
	tgδ <sub>0</sub> ≤0.0002	
Insulation resistance	R <sub>s</sub> ×C≥10000s (at20°C 100V.DC 60s)	
ESR	0.9mΩ(1kHz)	
L <sub>s</sub>	≤70nH	
R <sub>th</sub>	0.95K/W	
Max.current I <sub>rms</sub>	250A (50°C)	
Nonrecurrent surge voltage(U <sub>s</sub> )	3000V.DC	
Maximum peak current(I <sub>̂</sub> )	35kA	
Maximum surge current(I <sub>s</sub> )	105kA	
Failure quota	≤100fit	
Life expectancy	≥100000h (U <sub>N</sub> ; θ <sub>hotspot</sub> ≤70°C)	
Reference standard	IEC61071; IEC61881	
Weight	≈55kg	
Dimension	480mm×340mm×210mm	

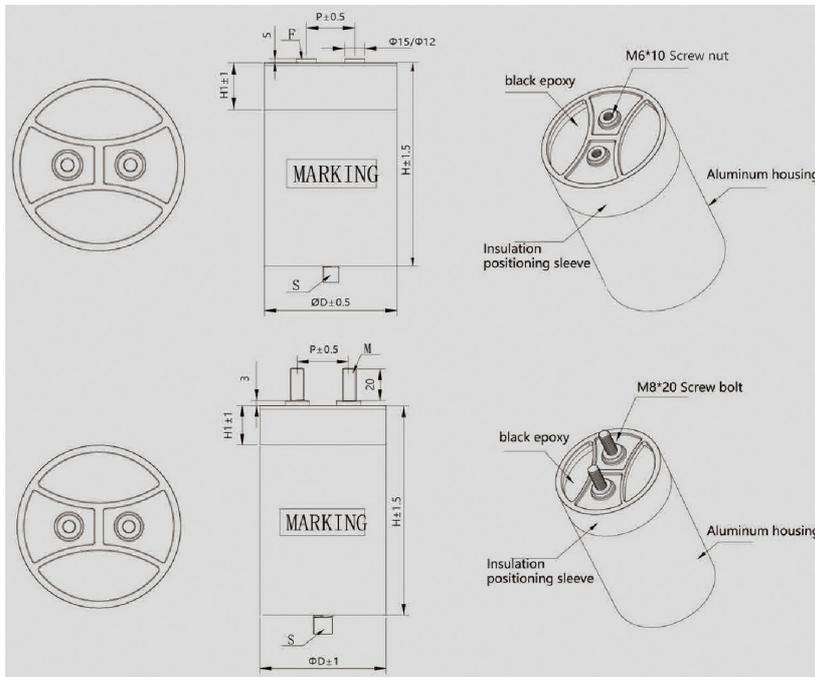


Operating temperature range	-40°C ~ 85°C	
Storage temperature range	-40°C ~ 85°C	
(U <sub>N</sub> ) /Rated voltage	2800V.DC	
(C <sub>N</sub> ) /Rated capacitance	9000μF	
Cap.tol	±5% (J)	
Withstand voltage	Vt-t	1.5U <sub>N</sub> /10s (20°C±5°C)
	Vt-c	6000V.AC/10s (50Hz, 20°C±5°C)
Dissipation factor	tgδ ≤ 0.00144 f=120Hz	
	tgδ <sub>0</sub> ≤ 0.0002	
Insulation resistance	R <sub>s</sub> × C ≥ 10000s (at 20°C 100V.DC 60s)	
ESR	0.14mΩ(1kHz)	
L <sub>s</sub>	≤ 55nH	
R <sub>th</sub>	0.15K/W	
Max.current I <sub>rms</sub>	750A (50°C)	
Nonrecurrent surge voltage(U <sub>s</sub> )	4200V.DC	
Maximum peak current(İ)	32kA	
Maximum surge current(I <sub>s</sub> )	800kA (5次)	
Failure quota	≤ 100fit	
Life expectancy	≥ 100000h (U <sub>N</sub> ; θ <sub>hotspot</sub> ≤ 70°C)	
Reference standard	IEC61071	
Weight	≈ 150kg	
Dimension	600mm × 175mm × 1050mm	

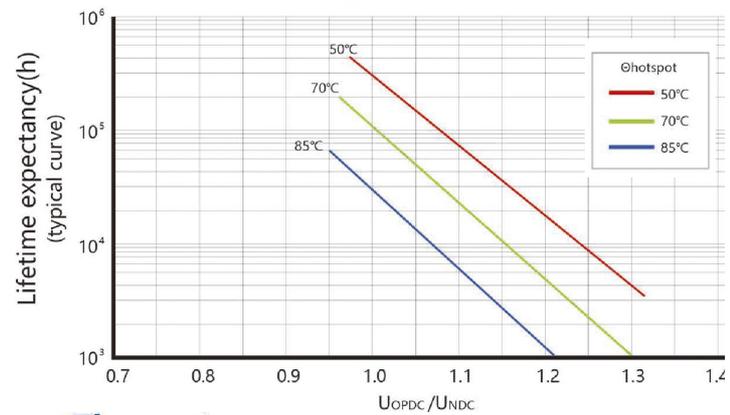


## Part number system

Model			Capacitance			UN(DC)				Cap. tol	diameter	Height			Lead	Bottom mounted type	Shell surface treatment	Internal feature code			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
D	M	C	4	2	7	1	2	0	0	J	D	1	5	5	*	*	*	*	*		
1	~	3	Model																		
4	~	6	Nominal Capacity			e.g. 427=42×10 <sup>7</sup> pF=420μF															
7	~	10	UN(DC)			e.g. 1200=1200VDC															
			11	Capacitance Tolerance			±5% (J) ; ±10% (K)														
			12	Shell diameter			A=φ55mm C=φ76mm F=φ116mm B=φ65mm D=φ86mm E=φ96mm G=φ136mm														
13	~	15	Shell height			e.g. 155=155mm															
			16	Lead			M: M8×20 Screw bolt F: M6×10 Screw nut														
			17	Bottom mounted type			S: Screw fixed T: Flat base														
			18	Shell surface treatment			0: Anode-free gasification treatment 1: Silver anodized finish														
19	~	20	Internal feature code																		



Life expectancy in the graph



The contour map

ΦD(mm)	P(mm)	H1(mm)	S	F	M
76	32	20	M12×16	M6×10	M8×20
86	32	20	M12×16	M6×10	M8×20
96	45	20	M12×16	M6×10	M8×20
116	50	30	M12×16	M6×10	M8×20
136	50	30	M16×25	M6×10	M8×20

### Application

- Widely used in DC-Link circuit for filtering energy storage.
- Can replace electrolytic capacitors, better performance and longer life.
- Pv inverter; wind power converter; All kinds of frequency converter and inverter.

### Technical data

Operating temperature range	Max. Operating temperature, Top, max: +85°C Upper category temperature: +70°C Lower category temperature: -40°C
(C <sub>N</sub> ) /Capacitance range	50μF~4000μF
(U <sub>N</sub> ) /Rated voltage	450V.DC~4000V.DC
Cap.tol	±5% (J) ; ±10% (K)
Withstand voltage	Vt-t 1.5U <sub>N</sub> DC/60s
	Vt-c 1000+2×U <sub>N</sub> /√2(V.AC)60(min 3000V.AC)
Over voltage	1.1U <sub>N</sub> (30% of on-load-dur.)
	1.15U <sub>N</sub> (30min/day)
	1.2U <sub>N</sub> (5min/day)
	1.3U <sub>N</sub> (1min/day)
	1.5U <sub>N</sub> (100ms every time, 1000times during the lifetime)
Dissipation factor	tgδ ≤ 0.003f=100Hz tgδ <sub>0</sub> ≤ 0.0002
Insulation resistance	Rs×C ≥ 10000s (at 20°C 100V.DC 60s)
Withstand strike current	See the specification sheet
I <sub>rms</sub>	See the specification sheet
Flame retardation	UL94V-0
Maximum altitude	3500m
	Derating should be considered when the altitude is between 3500m -5500m. (For each increase of 1000m, voltage and current will be reduced by 10%)
Life expectancy	100000h (U <sub>N</sub> ; θ <sub>hotspot</sub> ≤ 70°C)

C <sub>N</sub> (μF)	φD (mm)	H (mm)	ESL (nH)	dv/dt (V/μS)	I <sub>p</sub> (kA)	I <sub>s</sub> (kA)	I <sub>rms</sub> @50°C (A)	ESR @1kHz (mΩ)	R <sub>th</sub> (K/W)	P (mm)	Weight (kg)	Part number
U <sub>N</sub> 500V.DC												
380	76	75	50	10	3.8	11.4	45	2.2	4.5	32	0.5	DMC3870500*C075****
500	76	100	40	8	4.0	12.0	65	1.5	3.2	32	0.6	DMC5070500*C100****
750	76	130	50	5	3.8	11.3	65	1.6	3.0	32	0.75	DMC7570500*C130****
500	86	75	50	8	4.0	12.0	55	1.8	3.7	32	0.65	DMC5070500*D075****
1000	86	130	50	5	5.0	15.0	70	1.5	2.7	32	1.1	DMC1080500*D130****
650	86	100	40	5	3.3	9.8	75	1.2	3.0	32	0.9	DMC6570500*D100****
650	86	95	40	5	3.3	9.8	75	1.2	3.0	32	0.85	DMC6570500*D095****
650	96	75	50	5	3.3	9.8	60	1.5	3.7	45	0.75	DMC6570500*E075****
1250	96	130	50	4	5.0	15.0	80	1	3.1	45	1.2	DMC1280500*E130****
1800	116	130	50	4	7.2	21.6	85	0.8	3.5	50	1.6	DMC1880500*F130****
1450	86	180	60	4	5.8	17.4	90	0.9	2.7	32	1.55	DMC1480500*D180****
2400	116	155	50	3	7.2	21.6	90	0.8	3.5	50	1.9	DMC2480500*F155****
2700	116	190	60	3	8.1	24.3	100	0.8	2.5	50	2.45	DMC2780500*F190****
3200	116	233	60	3	9.6	28.8	100	0.65	2.7	50	3	DMC3280500*F233****

C <sub>N</sub> (μF)	φD (mm)	H (mm)	ESL (nH)	dv/dt (V/μS)	I <sub>p</sub> (kA)	I <sub>s</sub> (kA)	I <sub>rms</sub> @50°C (A)	ESR @1kHz (mΩ)	R <sub>th</sub> (K/W)	P (mm)	Weight (kg)	Part number
U <sub>N</sub> 600V.DC												
480	76	95	45	4	1.9	5.7	65	1.5	45	32	0.60	DMC4870600*C095****
650	76	120	50	3	1.9	5.7	63	1.9	50	32	0.70	DMC6570600*C120****
780	76	140	55	2	1.6	4.8	59	2.2	55	32	0.75	DMC7870600*C140****
820	76	155	40	4	3.2	9.6	70	1.5	40	32	0.90	DMC8270600*C155****
950	76	175	45	4	3.8	11.4	70	1.5	45	32	1.00	DMC9570600*C175****
650	86	95	45	4	2.6	7.8	70	1.2	45	32	0.72	DMC6570600*D095****
880	86	120	50	3	2.6	7.8	70	1.5	50	32	1.00	DMC8870600*D120****
1000	86	136	55	2	2.0	6.0	65	1.8	55	32	1.10	DMC1080600*D136****
1100	86	140	55	2	2.2	6.6	67	1.7	55	32	1.15	DMC1180600*D140****
1100	86	155	40	4	4.4	13.2	70	1.4	40	32	1.25	DMC1180600*D155****
1300	86	175	45	4	5.2	15.6	70	1.4	45	32	1.30	DMC1380600*D175****
2000	86	252	55	4	8.0	24.0	70	1.1	55	32	1.80	DMC2080600*D252****
1200	116	95	45	4	4.8	14.4	80	0.7	45	50	1.20	DMC1280600*F095****
1600	116	120	50	3	4.8	14.4	80	1.0	50	50	1.50	DMC1680600*F120****
2000	116	140	55	2	4.0	12.0	80	1.1	55	50	1.75	DMC2080600*F140****
2100	116	158	40	4	8.4	25.2	100	0.8	40	50	2.00	DMC2180600*F158****
2400	116	175	45	4	9.6	28.8	100	0.9	45	50	2.20	DMC2480600*F175****
3000	116	230	50	4	12.0	36.0	100	0.8	50	50	2.80	DMC3080600*F230****
5600	136	295	60	3	16.8	50.4	100	0.8	60	50	4.90	DMC5680600*G295****

U <sub>N</sub> 700V.DC												
250	76	75	40	15	3.8	11.3	40	3.1	3.0	32	0.50	DMC2570700*C075****
360	76	95	45	5	1.8	5.4	63	1.6	5.6	32	0.60	DMC3670700*C095****
470	76	125	45	4	1.9	5.7	60	1.8	5.4	32	0.70	DMC4770700*C125****
480	76	120	50	4	1.9	5.8	60	2.1	4.7	32	0.70	DMC4870700*C120****
580	76	140	55	3	1.7	5.2	56	2.4	4.6	32	0.75	DMC5870700*C140****
620	76	155	40	5	3.1	9.3	70	1.5	4.3	32	0.90	DMC6270700*C155****
720	76	175	45	5	3.6	10.8	70	1.6	4.2	32	1.00	DMC7270700*C175****
400	86	85	45	6	2.4	7.2	40	3.0	3.1	32	0.70	DMC4070700*D085****
480	86	95	45	5	2.4	7.2	70	1.3	5.1	32	0.72	DMC4870700*D095****
480	86	130	50	5	2.4	7.2	60	2.2	4.6	32	1.05	DMC4870700*D130****
650	86	120	50	4	2.6	7.8	66	1.7	4.7	32	1.00	DMC6570700*D120****
750	86	136	55	3	2.3	6.8	62	2.0	4.6	32	1.10	DMC7570700*D136****
780	86	140	55	3	2.3	7.0	63	1.9	4.6	32	1.15	DMC7870700*D140****
820	86	155	40	5	4.1	12.3	70	1.4	4.4	32	1.25	DMC8270700*D155****
950	86	175	45	5	4.8	14.3	70	1.5	4.3	32	1.30	DMC9570700*D175****
1500	86	252	55	5	7.5	22.5	70	1.1	3.0	32	1.80	DMC1580700*D252****
920	116	95	45	5	4.6	13.8	80	0.7	5.4	50	1.20	DMC9270700*F095****
1200	116	120	50	4	4.8	14.4	80	1.0	5.0	50	1.50	DMC1280700*F120****

C <sub>N</sub> (μF)	φD (mm)	H (mm)	ESL (nH)	dv/dt (V/μS)	I <sub>p</sub> (kA)	I <sub>s</sub> (kA)	I <sub>rms</sub> @50°C (A)	ESR @1kHz (mΩ)	R <sub>th</sub> (K/W)	P (mm)	Weight (kg)	Part number
<b>U<sub>N</sub> 700V.DC</b>												
1500	116	140	55	3	4.5	13.5	80	1.1	4.9	50	1.75	DMC1580700*F140*****
1500	116	158	40	5	7.5	22.5	100	0.8	3.6	50	2.00	DMC1580700*F158*****
1800	116	175	45	5	9.0	27.0	100	1.0	3.4	50	2.20	DMC1880700*F175*****
2300	116	230	50	5	11.5	34.5	100	0.8	2.7	50	2.80	DMC2380700*F230*****
4200	136	295	60	4	16.8	50.4	100	0.8	2.0	50	4.90	DMC4280700*G295*****
<b>U<sub>N</sub> 800V.DC</b>												
290	76	95	45	6	1.7	5.2	61	1.7	5.6	32	0.60	DMC2970800*C095*****
400	76	120	50	4	1.6	4.8	58	2.2	4.7	32	0.70	DMC4070800*C120*****
480	76	140	55	4	1.9	5.8	55	2.5	4.6	32	0.75	DMC4870800*C140*****
480	76	155	40	4	1.9	5.8	70	1.6	4.3	32	0.90	DMC4870800*C155*****
560	76	175	45	6	3.4	10.1	70	1.7	4.2	32	1.00	DMC5670800*C175*****
110	86	80	45	20	2.2	6.6	75	1.3	2.1	32	0.60	DMC1170800*D080*****
150	86	95	45	30	4.5	13.5	80	1.2	2.0	32	0.72	DMC1570800*D095*****
380	86	95	45	8	3.0	9.1	70	1.4	5.1	32	0.72	DMC3870800*D095*****
400	86	85	40	6	2.4	7.2	35	3.0	4.1	32	0.65	DMC4070800*D085*****
520	86	120	50	4	2.1	6.2	64	1.8	4.7	32	1.00	DMC5270800*D120*****
580	86	136	55	4	2.3	7.0	62	2.0	4.6	32	1.10	DMC5870800*D136*****
630	86	140	55	3	1.9	5.7	60	2.1	4.6	32	1.15	DMC6370800*D140*****
650	86	155	40	3	2.0	5.9	70	1.5	4.4	32	1.25	DMC6570800*D155*****
750	86	175	45	6	4.5	13.5	70	1.6	4.3	32	1.30	DMC7570800*D175*****
1100	86	252	55	4	4.4	13.2	70	1.2	3.0	32	1.80	DMC1180800*D252*****
720	116	95	45	6	4.3	13.0	80	0.8	5.4	50	1.20	DMC7270800*F095*****
980	116	120	50	4	3.9	11.8	79	1.1	5.0	50	1.50	DMC9870800*F120*****
1200	116	140	55	4	4.8	14.4	77	1.2	4.9	50	1.75	DMC1280800*F140*****
1200	116	158	40	6	7.2	21.6	100	0.85	3.6	50	2.00	DMC1280800*F158*****
1500	116	175	45	6	9.0	27.0	100	1.0	3.4	50	2.20	DMC1580800*F175*****
1800	116	230	50	6	10.8	32.4	100	0.8	2.7	50	2.80	DMC1880800*F230*****
3200	136	295	60	5	16.0	48.0	100	0.8	2.0	50	4.90	DMC3280800*G295*****
<b>U<sub>N</sub> 900V.DC</b>												
290	76	95	45	6	1.7	5.2	56	2.0	5.6	32	0.60	DMC2970900*C095*****
400	76	120	50	4	1.6	4.8	54	2.6	4.7	32	0.70	DMC4070900*C120*****
480	76	140	55	4	1.9	5.8	51	2.9	4.6	32	0.75	DMC4870900*C140*****
480	76	155	40	6	2.9	8.6	69	1.7	4.3	32	0.90	DMC4870900*C155*****
560	76	175	45	6	3.4	10.1	68	1.8	4.2	32	1.00	DMC5670900*C175*****
570	76	175	45	8	4.6	13.8	68	1.8	4.2	32	1.00	DMC5770900*C175*****
200	88	100	40	12	2.4	7.2	50	1.0	0.8	32	0.75	DMC2070900*D100*****
300	86	105	40	10	3	12	50	1.7	3.5	32	0.80	DMC3070900*D105*****
340	88	110	40	20	6.8	20.4	80	0.75	3.1	32	0.95	DMC3470900*D110*****

C <sub>N</sub> (μF)	φD (mm)	H (mm)	ESL (nH)	dv/dt (V/μS)	I <sub>p</sub> (kA)	I <sub>s</sub> (kA)	I <sub>rms</sub> @50°C (A)	ESR @1kHz (mΩ)	R <sub>th</sub> (K/W)	P (mm)	Weight (kg)	Part number
UN 900V.DC												
380	86	95	45	6	2.3	6.8	65	1.6	5.1	32	0.72	DMC3870900*D095*****
520	86	120	50	4	2.1	6.2	60	2.1	4.7	32	1.00	DMC5270900*D120*****
580	86	136	55	4	2.3	7.0	59	2.2	4.6	32	1.10	DMC5870900*D136*****
630	86	140	55	4	2.5	7.6	56	2.4	4.6	32	1.15	DMC6370900*D140*****
650	86	155	40	6	3.9	11.7	70	1.5	4.4	32	1.25	DMC6570900*D155*****
750	86	175	45	6	4.5	13.5	70	1.6	4.3	32	1.30	DMC7570900*D175*****
840	86	180	50	5	4.2	12.6	80	1.6	1.5	32	1.30	DMC8470900*D180*****
1100	86	252	55	6	6.6	19.8	70	1.3	3.0	32	1.80	DMC1180900*D252*****
800	96	136	50	5	4	12	70	1.8	1.7	45	1.35	DMC8070900*E136*****
720	116	95	45	6	4.3	13.0	80	0.9	5.4	50	1.20	DMC7270900*F095*****
980	116	120	50	4	3.9	11.8	76	1.2	5.0	50	1.50	DMC9870900*F120*****
1000	116	215	45	10	10	30	120	0.4	1.4	50	2.50	DMC1080900*F215*****
1200	116	140	55	4	4.8	14.4	71	1.4	4.9	50	1.75	DMC1280900*F140*****
1200	116	158	40	6	7.2	21.6	100	0.9	3.6	50	2.00	DMC1280900*F158*****
1320	116	175	45	6	8.0	24.0	80	1.0	2.4	50	2.20	DMC1380900*F175*****
1500	116	175	45	6	9.0	27.0	96	1.1	3.4	50	2.20	DMC1580900*F175*****
1800	116	230	50	6	10.8	32.4	100	0.8	2.7	50	2.80	DMC1880900*F230*****
3000	116	374	80	5	15	45	100	1.1	1.8	50	4.60	DMC3080900*F374*****
3200	136	295	60	5	16.0	48.0	100	0.8	2.0	50	4.90	DMC3280900*G295*****
UN 1000V.DC												
220	76	95	45	7	1.5	4.6	53	2.2	5.6	32	0.60	DMC2271000*C095*****
300	76	120	50	5	1.5	4.5	51	2.9	4.7	32	0.70	DMC3071000*C120*****
360	76	140	55	4	1.4	4.3	48	3.3	4.6	32	0.75	DMC3671000*C140*****
360	76	155	40	8	2.9	8.6	65	1.9	4.3	32	0.90	DMC3671000*C155*****
420	76	175	45	7	2.9	8.8	65	2.0	4.2	32	1.00	DMC4271000*C175*****
270	86	95	45	12	3.2	9.6	55	1.1	4.5	32	0.72	DMC2771000*D095*****
290	86	95	45	7	2.0	6.1	62	1.8	5.1	32	0.72	DMC2971000*D095*****
400	86	120	50	5	2.0	6.0	57	2.3	4.7	32	1.00	DMC4071000*D120*****
470	86	136	55	5	2.4	7.1	59	2.2	4.6	32	1.10	DMC4771000*D136*****
480	86	140	55	4	1.9	5.8	54	2.6	4.6	32	1.15	DMC4871000*D140*****
500	86	155	40	8	4.0	12.0	70	1.6	4.4	32	1.25	DMC5071000*D155*****
560	86	175	45	7	3.9	11.8	69	1.7	4.3	32	1.30	DMC5671000*D175*****
900	86	252	55	7	6.3	18.9	70	1.3	3.0	32	1.80	DMC9071000*D252*****
540	116	95	45	7	3.8	11.3	80	1.0	5.4	50	1.20	DMC5471000*F095*****
740	116	120	50	5	3.7	11.1	70	1.4	5.0	50	1.50	DMC7471000*F120*****
900	116	140	55	4	3.6	10.8	69	1.5	4.9	50	1.75	DMC9071000*F140*****
900	116	158	40	8	7.2	21.6	100	0.95	3.6	50	2.00	DMC9071000*F158*****
1100	116	175	45	7	7.7	23.1	92	1.2	3.4	50	2.20	DMC1181000*F175*****
1400	116	230	50	8	11.2	33.6	100	0.9	2.7	50	2.80	DMC1481000*F230*****
500	136	185	50	10	5	15	150	1.2	1.2	50	3.00	DMC5071000*G185*****
1000	136	230	60	4	4	12	150	1.2	1.2	50	4.20	DMC1081000*G230*****
2500	136	295	60	6	15.0	45.0	100	0.9	2.0	50	4.90	DMC2581000*G295*****

U <sub>N</sub> 1000V.DC												
170	76	95	40	13	2.0	6.1	51	2.3	4.1	32	0.60	DMC1771100*C095*****
180	76	95	45	8	1.4	4.3	52	2.3	5.6	32	0.60	DMC1871100*C095*****
250	76	120	50	6	1.5	4.5	50	3.0	4.7	32	0.70	DMC2571100*C120*****
300	76	140	55	5	1.5	4.5	47	3.5	4.6	32	0.75	DMC3071100*C140*****
310	76	155	40	9	2.8	8.4	65	1.9	4.3	32	0.90	DMC3171100*C155*****
360	76	175	45	8	2.9	8.6	65	2.0	4.2	32	1.00	DMC3671100*C175*****
240	86	95	45	8	1.9	5.8	60	1.9	5.1	32	0.72	DMC2471100*D095*****
330	86	120	50	6	2.0	5.9	56	2.4	4.7	32	1.00	DMC3371100*D120*****
420	86	136	55	5	2.1	6.3	58	2.3	4.6	32	1.10	DMC4271100*D136*****
420	88	136	40	12	5.0	15	75	1.5	1.8	32	1.15	DMC4271100*D136*****
420	86	155	40	9	3.8	11.3	63	1.7	4.4	32	1.25	DMC4271100*D155*****
480	86	173	40	11	5.0	15	80	1.0	2.3	32	1.30	DMC4871100*D173*****
500	86	174	45	10	5.0	15	80	1.1	2.1	32	1.30	DMC5071100*D174*****
750	86	230	55	8	6.0	18.0	70	1.3	3.0	32	1.70	DMC7571100*D230*****
750	86	252	55	8	6.0	18.0	70	1.3	3.0	32	1.80	DMC7571100*D252*****
840	86	255	60	7	6.0	18.0	75	2.0	1.4	32	1.85	DMC8471100*D255*****
600	96	155	50	5	3.0	9.0	70	1.6	1.9	45	1.50	DMC6071100*E155*****
660	96	155	50	5	3.0	9.0	70	1.6	1.9	45	1.50	DMC6671100*E155*****
450	116	95	45	8	3.6	10.8	80	1.0	5.4	50	1.20	DMC4571100*F095*****
620	116	120	50	6	3.7	11.2	70	1.4	5.0	50	1.50	DMC6271100*F120*****
750	116	140	55	5	3.8	11.3	66	1.6	4.9	50	1.75	DMC7571100*F140*****
780	116	158	40	9	7.0	21.1	100	0.9	3.6	50	2.00	DMC7871100*F158*****
920	116	175	45	8	7.4	22.1	96	1.1	3.4	50	2.20	DMC9271100*F175*****
1000	116	180	60	4	4	12	85	1.1	1.9	50	2.25	DMC1081100*F180*****
1200	116	180	60	4	4.8	14.4	75	1.3	2.1	50	2.25	DMC1281100*F180*****
1200	116	230	50	9	10.8	32.4	100	0.9	2.7	50	2.80	DMC1281100*F230*****
1500	116	275	50	5	7.5	22.5	100	0.8	1.9	50	3.40	DMC1581100*F275*****
1600	116	275	50	5	8	24	100	0.8	1.9	50	3.40	DMC1681100*F275*****
2000	116	335	70	6	12	36	100	1.3	1.2	50	4.00	DMC2081100*F335*****
1700	136	230	60	6	10.2	30.6	100	1.1	1.4	50	3.80	DMC1781100*G230*****
2200	136	295	60	7	15.4	46.2	100	0.9	2.0	50	4.90	DMC2281100*G295*****
3060	136	335	70	5	15.3	45.9	100	0.9	2.0	50	6.00	DMC3081100*G335*****

U <sub>N</sub> 1200V.DC												
140	76	95	45	10	1.4	4.2	48	2.7	5.6	32	0.60	DMC1471200*C095*****
200	76	120	50	7	1.4	4.2	47	3.4	4.7	32	0.70	DMC2071200*C120*****
240	76	140	55	6	1.4	4.3	44	3.9	4.6	32	0.75	DMC2471200*C140*****
240	76	155	40	11	2.6	7.9	64	2.0	4.3	32	0.90	DMC2471200*C155*****
280	76	175	45	10	2.8	8.4	63	2.1	4.2	32	1.00	DMC2871200*C175*****
190	86	95	45	10	1.9	5.7	57	2.1	5.1	32	0.72	DMC1971200*D095*****
260	86	120	50	7	1.8	5.5	53	2.7	4.7	32	1.00	DMC2671200*D120*****
320	86	136	55	6	1.9	5.8	55	2.5	4.6	32	1.10	DMC3271200*D136*****
330	86	140	55	6	2.0	5.9	50	3.0	4.6	32	1.15	DMC3371200*D140*****
330	86	155	40	11	3.6	10.9	66	1.8	4.4	32	1.25	DMC3371200*D155*****
380	86	175	45	10	3.8	11.4	65	1.9	4.3	32	1.30	DMC3871200*D175*****
420	86	136	55	5	2.1	6.3	58	2.3	4.6	32	1.10	DMC4271200*D136*****
420	88	136	40	12	5.0	15	75	1.5	1.8	32	1.15	DMC4271200*D136*****
420	86	155	40	12	5	15	70	1.5	2.0	32	1.25	DMC4271200*D155*****
580	86	252	55	10	5.8	17.4	70	1.5	3.0	32	1.80	DMC5871200*D252*****
600	86	225	50	10	6	18	70	1.5	3.0	32	1.70	DMC6071200*D225*****
700	86	225	60	7	4.9	14.7	70	1.8	1.7	32	1.70	DMC7071200*D225*****
360	116	95	45	10	3.6	10.8	76	1.1	5.4	50	1.20	DMC3671200*F095*****
500	116	120	50	7	3.5	10.5	66	1.6	5.0	50	1.50	DMC5071200*F120*****
600	116	140	55	6	3.6	10.8	63	1.8	4.9	50	1.75	DMC6071200*F140*****
620	116	158	40	11	6.8	20.5	98	1.0	3.6	50	2.00	DMC6271200*F158*****
720	116	175	45	10	7.2	21.6	92	1.2	3.4	50	2.20	DMC7271200*F175*****
920	116	180	50	10	9.2	27.6	75	1.5	1.8	50	2.25	DMC9271200*F180*****
950	116	230	50	11	10.5	31.4	100	0.9	2.7	50	2.80	DMC9571200*F230*****
1000	116	190	50	11	11	33	80	0.9	2.6	50	2.40	DMC1081200*F190*****
1000	116	230	50	11	11	33	100	0.9	2.7	50	2.80	DMC1081200*F230*****
1200	116	230	50	6	7.2	21.6	100	0.9	2.7	50	2.80	DMC1281200*F230*****
1700	136	295	60	9	15.3	45.9	100	0.9	2.0	50	4.90	DMC1781200*G295*****
U <sub>N</sub> 1300V.DC												
120	76	95	45	11	1.3	4.0	46	2.9	5.6	32	0.60	DMC1271300*C095*****
170	76	120	50	8	1.4	4.1	45	3.7	4.7	32	0.70	DMC1771300*C120*****
210	76	140	55	7	1.5	4.4	43	4.1	4.6	32	0.75	DMC2171300*C140*****
210	76	155	40	13	2.7	8.2	62	2.1	4.3	32	0.90	DMC2171300*C155*****
240	76	175	45	11	2.6	7.9	60	2.3	4.2	32	1.00	DMC2471300*C175*****
130	86	80	40	23	3.0	9.0	40	4.2	2.2	32	0.60	DMC1371300*D080*****
170	86	95	45	11	1.9	5.6	56	2.2	5.1	32	0.72	DMC1771300*D095*****
230	86	120	50	8	1.8	5.5	52	2.8	4.7	32	1.00	DMC2371300*D120*****
270	86	136	55	7	1.9	5.7	52	2.8	4.6	32	1.10	DMC2771300*D136*****
270	86	140	55	7	1.9	5.7	48	3.3	4.6	32	1.15	DMC2771300*D140*****
280	86	155	40	13	3.6	10.9	66	1.8	4.4	32	1.25	DMC2871300*D155*****
320	86	175	45	11	3.5	10.6	65	1.9	4.3	32	1.30	DMC3271300*D175*****
520	86	252	55	11	5.7	17.2	70	1.5	3.0	32	1.80	DMC5271300*D252*****
320	116	95	45	11	3.5	10.6	73	1.2	5.4	50	1.20	DMC3271300*F095*****
430	116	120	50	8	3.4	10.3	66	1.6	5.0	50	1.50	DMC4371300*F120*****
520	116	140	55	7	3.6	10.9	63	1.8	4.9	50	1.75	DMC5271300*F140*****
540	116	158	40	13	7.0	21.1	98	1.0	3.6	50	2.00	DMC5471300*F158*****
630	116	175	45	11	6.9	20.8	92	1.2	3.4	50	2.20	DMC6371300*F175*****
650	116	175	45	11	7.2	21.6	80	2.2	1.1	50	2.20	DMC6571300*F175*****
820	116	230	50	13	10.7	32.0	100	0.9	2.7	50	2.80	DMC8271300*F230*****
1300	136	225	60	14	18.0	54.0	72	1.6	1.8	50	2.80	DMC1381300*G225*****
1500	136	295	60	10	15.0	45.0	100	1.0	2.0	50	4.90	DMC1581300*G295*****

U<sub>N</sub> 1400V.DC

100	76	95	45	13	1.3	3.9	45	3.1	5.6	32	0.60	DMC1071400*C095*****
140	76	120	50	10	1.4	4.2	43	4.0	4.7	32	0.70	DMC1471400*C120*****
170	76	140	55	8	1.4	4.1	41	4.6	4.6	32	0.75	DMC1771400*C140*****
170	76	155	40	15	2.6	7.7	59	2.3	4.3	32	0.90	DMC1771400*C155*****
200	76	175	45	13	2.6	7.8	59	2.4	4.2	32	1.00	DMC2071400*C175*****
140	86	95	45	13	1.8	5.5	53	2.4	5.1	32	0.72	DMC1471400*D095*****
190	86	120	50	10	1.9	5.7	49	3.1	4.7	32	1.00	DMC1971400*D120*****
230	86	136	55	8	1.8	5.5	51	2.9	4.6	32	1.10	DMC2371400*D136*****
240	86	155	40	15	3.6	10.8	65	1.9	4.4	32	1.25	DMC2471400*D155*****
270	86	175	45	13	3.5	10.5	62	2.1	4.3	32	1.30	DMC2771400*D175*****
420	86	252	55	13	5.5	16.4	70	1.5	3.0	32	1.80	DMC4271400*D252*****
800	96	255	55	9	7.2	21.6	100	1.8	2.6	45	2.30	DMC8071400*E255*****
260	116	95	45	13	3.4	10.1	70	1.3	5.4	50	1.20	DMC2671400*F095*****
360	116	120	50	9	3.2	9.7	62	1.8	5.0	50	1.50	DMC3671400*F120*****
450	116	140	55	8	3.6	10.8	59	2.0	4.9	50	1.75	DMC4571400*F140*****
460	116	158	40	15	6.9	20.7	94	1.1	3.6	50	2.00	DMC4671400*F158*****
540	116	175	45	13	7.0	21.1	79	1.3	3.4	50	2.20	DMC5471400*F175*****
700	116	230	50	15	10.5	31.5	94	0.9	2.7	50	2.80	DMC7071400*F230*****
1300	136	295	60	11	14.3	42.9	100	1.05	2.0	50	4.90	DMC1381400*G295*****

U<sub>N</sub> 1500V.DC

90	76	95	45	14	1.3	3.8	44	3.3	5.6	32	0.60	DMC9061500*C095*****
120	76	120	50	10	1.2	3.6	41	4.4	4.7	32	0.70	DMC1271500*C120*****
150	76	140	55	9	1.4	4.1	39	4.9	4.6	32	0.75	DMC1571500*C140*****
150	76	155	40	16	2.4	7.2	58	2.4	4.3	32	0.90	DMC1571500*C155*****
170	76	175	45	14	2.4	7.1	58	2.5	4.2	32	1.00	DMC1771500*C175*****
120	86	95	45	14	1.7	5.0	51	2.6	5.1	32	0.72	DMC1271500*D095*****
170	86	120	50	10	1.7	5.1	48	3.3	4.7	32	1.00	DMC1771500*D120*****
200	86	136	55	9	1.8	5.4	50	3.0	4.6	32	1.10	DMC2071500*D136*****
210	86	155	40	16	3.4	10.1	63	2.0	4.4	32	1.25	DMC2171500*D155*****
240	86	175	45	14	3.4	10.1	62	2.1	4.3	32	1.30	DMC2471500*D175*****
330	86	216	40	10	3.3	9.9	72	2.5	1.2	32	1.70	DMC3371500*D216*****
380	86	252	55	14	5.3	16.0	70	1.5	3.0	32	1.80	DMC3871500*D252*****
210	96	130	40	20	4.2	12.6	70	3.5	1.0	45	1.20	DMC2171500*E130*****
230	116	95	45	14	3.2	9.7	68	1.4	5.4	50	1.20	DMC2371500*F095*****
320	116	120	50	10	3.2	9.6	60	1.9	5.0	50	1.50	DMC3271500*F120*****
390	116	140	55	9	3.5	10.5	58	2.1	4.9	50	1.75	DMC3971500*F140*****
420	116	158	40	16	6.7	20.2	94	1.1	3.6	50	2.00	DMC4271500*F158*****
470	116	175	45	14	6.6	19.7	79	1.3	3.4	50	2.20	DMC4771500*F175*****
600	116	230	50	16	9.6	28.8	89	1.0	2.7	50	2.80	DMC6071500*F230*****
1100	136	295	60	12	13.2	39.6	100	1.1	2.0	50	4.90	DMC1181500*G295*****

U<sub>N</sub> 2000V.DC

110	86	140	65	17	1.9	5.6	42	3.5	4.5	32	1.05	DMC1172000*D140*****
180	86	225	60	21	3.8	11.3	69	1.8	3.2	32	1.65	DMC1872000*D225*****
270	96	230	60	10	2.7	8.4	65	2.0	1.8	45	2.10	DMC2772000*E230*****
180	116	120	60	21	3.8	11.3	61	2.1	3.5	50	1.60	DMC1872000*F120*****
200	116	125	60	20	4	12	60	4	1.1	50	1.60	DMC2072000*F125*****
220	116	140	65	17	3.7	11.2	60	2.3	3.3	50	1.85	DMC2272000*F140*****
260	116	175	55	29	7.5	22.6	93	1.1	2.9	50	2.30	DMC2672000*F175*****
290	116	180	60	18	5.3	15.9	70	2	1.5	50	2.35	DMC2972000*F180*****
360	116	225	60	21	7.6	22.7	93	1.3	2.4	50	2.85	DMC3672000*F225*****
580	116	270	65	10	5.8	17.4	100	3	2.0	50	3.30	DMC5872000*F270*****
250	136	120	60	21	5.3	15.8	67	1.8	2.9	50	2.15	DMC2572000*G120*****
310	136	140	65	17	5.3	15.8	66	2.0	2.7	50	2.45	DMC3172000*G140*****
360	136	175	55	29	10.4	31.3	99	1.0	2.4	50	3.15	DMC3672000*G175*****
500	136	225	60	21	10.5	31.5	98	1.2	2.1	50	3.90	DMC5072000*G225*****
610	136	265	60	17	10.4	31.1	98	1.3	1.9	50	4.50	DMC6172000*G265*****
800	136	335	60	14	11.2	33.6	102	1.0	1.5	50	6.00	DMC8072000*G335*****
880	136	360	75	14	11.5	34.5	100	0.75	2	50	6.30	DMC8872000*G360*****

U<sub>N</sub> 2200V.DC

90	86	140	65	20	1.8	5.4	41	3.7	4.5	32	1.05	DMC9062200*D140*****
150	86	225	60	25	3.8	11.3	68	1.9	3.2	32	1.65	DMC1572200*D225*****
140	116	120	60	25	3.5	10.5	59	2.2	3.6	50	1.60	DMC1472200*F120*****
170	116	140	65	20	3.4	10.2	58	2.5	3.3	50	1.85	DMC1772200*F140*****
180	116	130	65	20	3.6	10.8	80	3	1.6	50	1.80	DMC1872200*F130*****
210	116	175	55	34	7.1	21.4	91	1.1	2.9	50	2.30	DMC2172200*F175*****
250	116	180	65	30	7.5	22.5	50	5	1.2	50	2.30	DMC2572200*F180*****
290	116	225	60	25	7.3	21.8	91	1.4	2.4	50	2.90	DMC2972200*F225*****
200	136	120	60	25	5.0	15.0	66	1.9	2.9	50	2.15	DMC2072200*G120*****
250	136	140	65	20	5.0	15.0	65	2.1	2.7	50	2.45	DMC2572200*G140*****
290	136	175	55	34	9.9	29.6	97	1.0	2.4	50	3.15	DMC2972200*G175*****
400	136	225	60	25	10.0	30.0	96	1.2	2.1	50	3.90	DMC4072200*G225*****
500	136	265	60	20	10.0	30.0	97	1.4	1.9	50	4.50	DMC5072200*G265*****
540	136	275	70	11	6	18	70	2	1.5	50	4.60	DMC5472200*G275*****

U<sub>N</sub> 2400V.DC

75	86	140	65	24	1.8	5.4	40	3.9	4.5	32	1.05	DMC7562400*D140*****
120	86	225	60	29	3.5	10.4	65	2.0	3.2	32	1.65	DMC1272400*D225*****
120	116	120	60	29	3.5	10.4	58	2.3	3.6	50	1.60	DMC1272400*F120*****
140	116	140	65	24	3.4	10.1	56	2.6	3.3	50	1.85	DMC1472400*F140*****
170	116	175	55	41	7.0	20.9	89	1.2	2.9	50	2.30	DMC1772400*F175*****
240	116	225	60	29	7.0	20.9	89	1.4	2.5	50	2.85	DMC2472400*F225*****
160	136	120	60	29	4.6	13.9	63	2.0	3.0	50	2.20	DMC1672400*G120*****
200	136	140	65	24	4.8	14.4	63	2.2	2.8	50	2.50	DMC2072400*G140*****
240	136	175	55	41	9.8	29.5	95	1.1	2.5	50	3.15	DMC2472400*G175*****
330	136	225	60	29	9.6	28.7	94	1.3	2.1	50	3.90	DMC3372400*G225*****
410	136	265	60	24	9.8	29.5	95	1.4	1.9	50	4.50	DMC4172400*G265*****

U <sub>N</sub> 2600V.DC												
63	86	140	65	28	1.8	5.3	38	4.1	4.5	32	1.05	DMC6362600*D140*****
100	86	225	60	34	3.4	10.2	63	2.1	3.2	32	1.65	DMC1072600*D225*****
100	116	120	60	34	3.4	10.2	57	2.4	3.6	50	1.60	DMC1072600*F120*****
120	116	140	65	28	3.4	10.1	55	2.7	3.3	50	1.85	DMC1272600*F140*****
140	116	175	55	47	6.6	19.7	87	1.2	2.9	50	2.30	DMC1472600*F175*****
200	116	225	60	34	6.8	20.4	87	1.5	2.5	50	2.85	DMC2072600*F225*****
140	136	120	60	34	4.8	14.3	63	2.0	3.0	50	2.15	DMC1472600*G120*****
170	136	140	65	28	4.8	14.3	62	2.3	2.8	50	2.45	DMC1772600*G140*****
200	136	175	55	47	9.4	28.2	94	1.1	2.5	50	3.15	DMC2072600*G175*****
284	136	225	60	34	9.7	29.0	93	1.3	2.1	50	3.90	DMC2872600*G225*****
340	136	265	60	28	9.5	28.6	92	1.5	1.9	50	4.50	DMC3472600*G265*****

U <sub>N</sub> 2800V.DC												
54	86	140	65	32	1.7	5.2	37	4.3	4.5	32	1.05	DMC5462800*D140*****
88	86	225	60	39	3.4	10.3	62	2.2	3.2	32	1.65	DMC8862800*D225*****
86	116	120	60	39	3.4	10.1	56	2.5	3.6	50	1.60	DMC8662800*F120*****
100	116	140	65	32	3.2	9.6	53	2.9	3.4	50	1.85	DMC1072800*F140*****
120	116	175	55	55	6.6	19.8	85	1.3	2.9	50	2.30	DMC1272800*F175*****
170	116	225	60	39	6.6	19.9	85	1.5	2.5	50	2.85	DMC1772800*F225*****
120	136	120	60	39	4.7	14.0	62	2.1	3.0	50	2.15	DMC1272800*G120*****
140	136	140	65	32	4.5	13.4	59	2.4	2.8	50	2.50	DMC1472800*G140*****
170	136	175	55	55	9.4	28.1	92	1.1	2.5	50	3.15	DMC1772800*G175*****
240	136	225	60	39	9.4	28.1	92	1.3	2.1	50	3.90	DMC2472800*G225*****
290	136	265	60	32	9.3	27.8	91	1.5	1.9	50	4.50	DMC2972800*G265*****

U <sub>N</sub> 3000V.DC												
46	86	140	65	34	1.6	4.7	36	4.6	4.6	32	1.05	DMC4663000*D140*****
75	86	225	60	42	3.2	9.5	61	2.3	3.2	32	1.65	DMC7563000*D225*****
74	116	120	60	42	3.1	9.3	54	2.6	3.6	50	1.60	DMC7463000*F120*****
90	116	140	65	35	3.2	9.5	53	2.9	3.3	50	1.80	DMC9063000*F140*****
100	116	175	55	59	5.9	17.7	83	1.3	3.0	50	2.35	DMC1073000*F175*****
140	116	225	60	42	5.9	17.6	82	1.6	2.5	50	2.90	DMC1473000*F225*****
100	136	120	60	42	4.2	12.6	60	2.2	3.0	50	2.15	DMC1073000*G120*****
120	136	140	65	35	4.2	12.6	58	2.5	2.8	50	2.50	DMC1273000*G140*****
140	136	175	55	59	8.3	24.8	89	1.2	2.5	50	3.15	DMC1473000*G175*****
200	136	225	60	42	8.4	25.2	89	1.4	2.2	50	3.90	DMC2073000*G225*****
250	136	265	60	35	8.8	26.3	89	1.6	1.9	50	4.50	DMC2573000*G265*****

U <sub>N</sub> 3200V.DC												
40	86	140	65	37	1.5	4.4	35	4.9	4.6	32	1.05	DMC4063200*D140*****
65	86	225	60	45	2.9	8.8	59	2.4	3.2	32	1.65	DMC6563200*D225*****
64	116	120	60	45	2.9	8.6	53	2.7	3.6	50	1.60	DMC6463200*F120*****
78	116	140	65	37	2.9	8.7	52	3.1	3.4	50	1.80	DMC7863200*F140*****
92	116	175	55	63	5.8	17.4	83	1.3	3.0	50	2.30	DMC9263200*F175*****
120	116	225	60	45	5.4	16.2	80	1.7	2.5	50	2.90	DMC1273200*F225*****
90	136	120	60	45	4.1	12.2	59	2.2	3.0	50	2.15	DMC9063200*G120*****
110	136	140	65	37	4.1	12.2	58	2.5	2.8	50	2.45	DMC1173200*G140*****
120	136	175	55	63	7.6	22.7	87	1.2	2.6	50	3.20	DMC1273200*G175*****
180	136	225	60	45	8.1	24.3	89	1.4	2.2	50	3.85	DMC1873200*G225*****
220	136	265	60	37	8.1	24.4	88	1.6	1.9	50	4.45	DMC2273200*G265*****

U<sub>N</sub> 3600V.DC

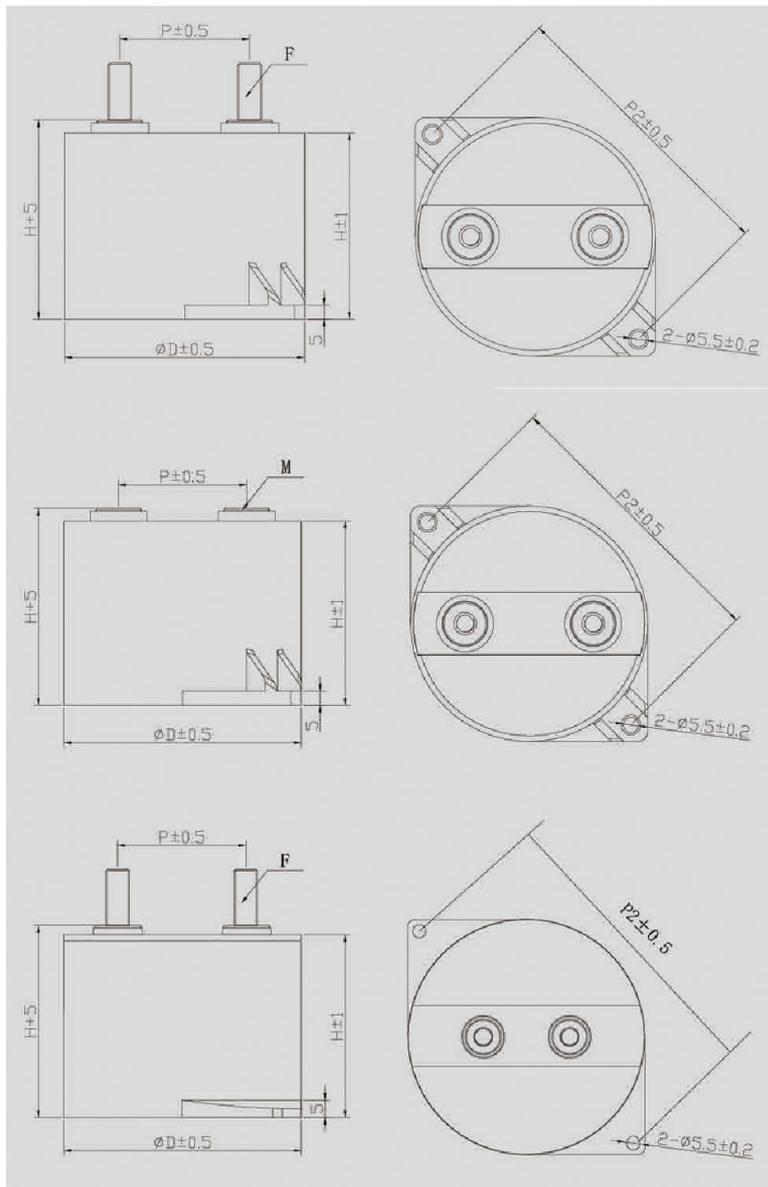
28	86	140	65	59	1.7	5.0	38	4.0	4.6	32	1.10	DMC2863600*D140*****
45	86	225	60	73	3.3	9.9	64	2.0	3.3	32	1.70	DMC4563600*D225*****
44	116	120	60	74	3.3	9.8	57	2.3	3.7	50	1.65	DMC4463600*F120*****
54	116	140	65	59	3.2	9.6	55	2.7	3.4	50	1.90	DMC5463600*F140*****
88	116	225	60	74	6.5	19.5	87	1.4	2.5	50	3.00	DMC8863600*F225*****
110	116	265	60	60	6.6	19.8	85	1.6	2.3	50	3.45	DMC1173600*F265*****
61	136	120	60	73	4.5	13.4	63	2.0	3.0	50	2.25	DMC6163600*G120*****
75	136	140	65	60	4.5	13.5	61	2.3	2.8	50	2.55	DMC7563600*G140*****
120	136	225	60	74	8.9	26.6	92	1.3	2.2	50	4.05	DMC1273600*G225*****
150	136	265	60	60	9.0	27.0	92	1.5	2.0	50	4.70	DMC1573600*G265*****
24	86	140	65	69	1.7	5.0	37	4.2	4.6	32	1.10	DMC2464000*D140*****
38	86	225	60	85	3.2	9.7	62	2.1	3.3	32	1.70	DMC3864000*D225*****

U<sub>N</sub> 4000V.DC

37	116	120	60	85	3.1	9.4	55	2.4	3.7	50	1.65	DMC3764000*F120*****
46	116	140	65	69	3.2	9.5	54	2.8	3.4	50	1.90	DMC4664000*F140*****
74	116	225	60	85	6.3	18.9	85	1.5	2.5	50	3.00	DMC7464000*F225*****
92	116	265	60	69	6.3	19.0	83	1.7	2.3	50	3.45	DMC9264000*F265*****
52	136	120	60	85	4.4	13.3	62	2.1	3.0	50	2.25	DMC5264000*G120*****
64	136	140	65	69	4.4	13.2	60	2.3	2.8	50	2.55	DMC6464000*G140*****
100	136	225	60	85	8.5	25.5	90	1.3	2.2	50	4.05	DMC1074000*G225*****
130	136	265	60	69	9.0	26.9	91	1.5	2.0	50	4.65	DMC1374000*G265*****



Operating temperature range	Max.Operating temperature,Topmax: +105°C	
	Upper category temperature: +85°C	
	Lower category temperature: -40°C	
(C <sub>N</sub> )/Capacitance range	50µF~380µF	
(U <sub>N</sub> )/Rated voltage	450V.DC~1500V.DC	
Cap.tol	±5% (J) ; ±10% (K)	
Withstand voltage	Vt-t	1.5U <sub>N</sub> DC/60s
	Vt-c	1000+2×U <sub>N</sub> /√2 V.AC60s (min3000 V.AC)
Over voltage	1.1U <sub>N</sub> (30% of on-load-dur.)	
	1.15U <sub>N</sub> (30min/day)	
	1.2U <sub>N</sub> (5min/day)	
	1.3U <sub>N</sub> (1min/day)	
	1.5U <sub>N</sub> (100ms every time 1000times during the lifetime)	
Dissipation factor	tgδ≤0.002 f=1000Hz	
	tgδ <sub>0</sub> ≤0.0002	
Insulation resistance	R <sub>s</sub> ×C≥10000s (at 20°C 100V.DC 60s)	
Withstand strike current	For details, see the specification sheet	
I <sub>rms</sub>	For details, see the specification sheet	
Flame retardation	UL94V-0	
Maximum altitude	3500m	
	Derating should be considered when the altitude is between 3500m -5500m. (For each increase of 1000m, voltage and current will be reduced by 10%)	
Life expectancy	100000h (U <sub>N</sub> ; θ <sub>hotspot</sub> ≤70°C)	



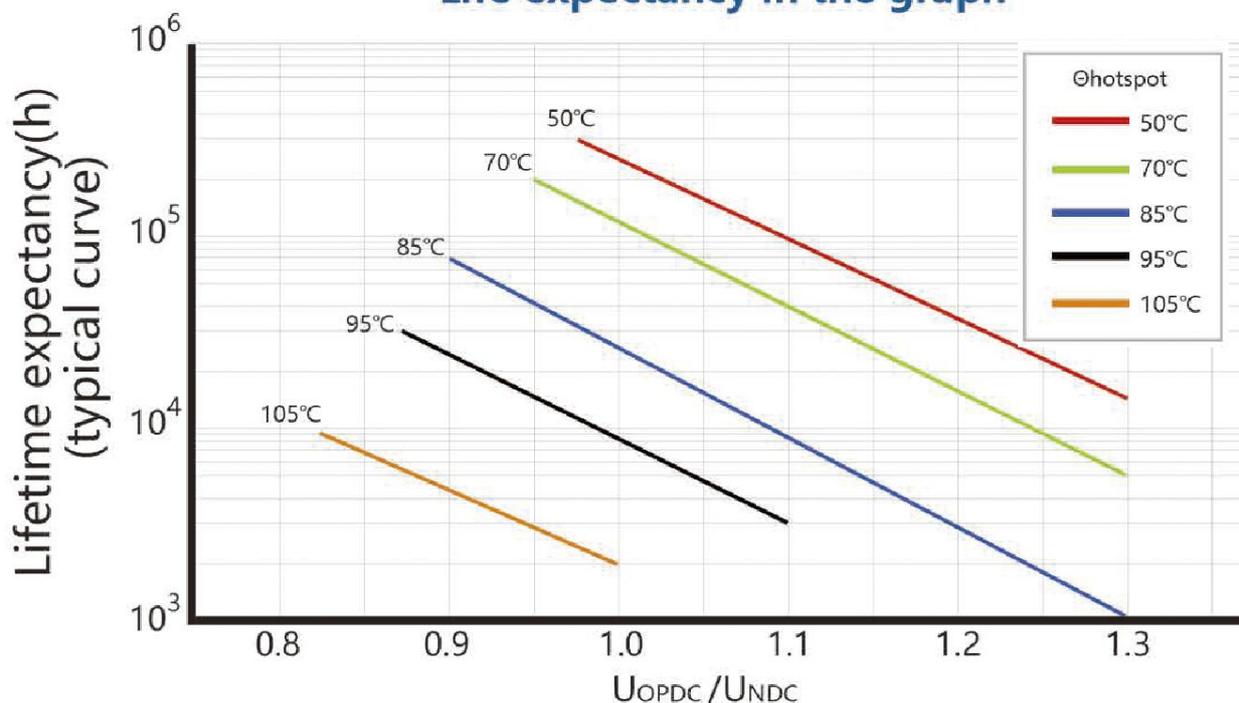
**Application**

- Widely used in DC-link circuit for filtering energy storage.
- Can replace electrolytic capacitors, better performance and longer life.
- Pv inverter, wind power converter;
- Pure electric and hybrid cars; SVG, SVC devices
- All kinds of frequency converter and inverter power supply

**Standard Dimension**

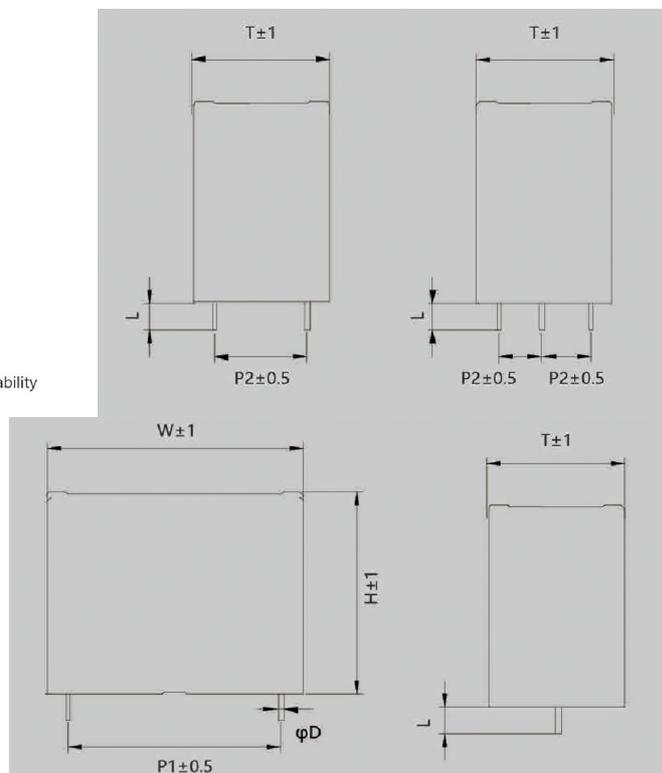
Φd (mm)	H (mm)	P (mm)	P2	F	M
84.5	40	45	101	M5×7	M8×20
84.5	51	45	101	M5×7	M8×20
84.5	65	45	101	M5×7	M8×20
84.5	76	45	101	M5×7	M8×20
115	64	60	133	M5×10	M8×20

**Life expectancy in the graph**



Model			Capacitance			U <sub>N</sub> (DC)				Cap. tol	Size	Lead	Internal feature code	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
D	P	C	2	2	7	0	6	0	0	K	1	M	0	1
1	~	3	Model											
4	~	6	Nominal Capacity											
e.g. 227=22×10 <sup>7</sup> pF=220μF														
7	~	10	U <sub>N</sub> (DC)											
e.g. 0600=600VDC														
			11	Capacitance Tolerance										
±5% (J) ; ±10% (K)														
			12	Size										
1:84.5×40 (p=45)														
2:84.5×51 (p=45)														
3:84.5×65 (p=45)														
4:84.5×76 (p=45)														
5:115×64 (p=45)														
			13	Lead										
M:M8×20 Screw bolt														
F:M5×7 Screw nut														
14	~	15	Internal feature code											

U <sub>N</sub> (VDC)	C <sub>N</sub> (μF)	ESR 10kHz (mΩ)	R <sub>th</sub> (K/W)	I <sub>rms</sub> @55°C (A)	dv/dt (V/us)	I <sub>p</sub> (A)	Dimension		L <sub>s</sub> (nH)	Weight (kg)	Part number
							ΦD (mm)	H (mm)			
450	180	0.7	6	85	12	2160	84.5	40	25	0.35	DPC1870450*1***
	280	0.8	5	85	10	2800	84.5	51	32	0.4	DPC2870450*2***
	330	0.7	4.8	95	9	2970	84.5	65	40	0.5	DPC3370450*3***
	380	1	4.8	80	8	3040	84.5	65	40	0.5	DPC3870450*3***
	700	0.8	3.7	95	5	3500	115	64	40	0.9	DPC7070450*5***
600	110	0.8	6	82	20	2200	84.5	40	25	0.34	DPC1170600*1***
	180	0.9	5	85	13	2340	84.5	51	32	0.4	DPC1870600*2***
	220	0.7	4.8	95	11	2420	84.5	65	40	0.5	DPC2270600*3***
	280	1	4.8	80	9	2520	84.5	65	40	0.5	DPC2870600*3***
	470	0.9	3.7	95	8	3760	115	64	40	0.9	DPC4770600*5***
800	75	1	6	72	25	1875	84.5	40	25	0.35	DPC7560800*1***
	120	0.9	5	82	19	2280	84.5	51	32	0.4	DPC1270800*2***
	150	0.9	5	82	16	2400	84.5	51	32	0.4	DPC1570800*2***
	140	0.8	4.8	90	18	2520	84.5	65	40	0.5	DPC1470800*3***
	140	1.1	4.8	75	18	2520	84.5	65	40	0.5	DPC1470800*3***
	220	1.1	4.8	75	11	2420	84.5	65	40	0.5	DPC2270800*3***
	320	0.9	3.7	90	12	3840	115	64	40	0.9	DPC3270800*5***
900	100	0.9	5	82	19	2280	84.5	51	32	0.4	DPC1070900*2***
	150	0.9	5	82	16	2400	84.5	51	32	0.4	DPC1570900*2***
	140	0.8	4.8	90	18	2520	84.5	65	40	0.5	DPC1470900*3***
	140	1.1	4.8	75	18	2520	84.5	65	40	0.5	DPC1470900*3***
1100	60	1.5	6	58	30	1800	84.5	40	25	0.35	DPC6061100*1***
	90	1.5	5	64	25	2250	84.5	51	32	0.4	DPC9061100*2***
	120	1	4.8	78	20	2400	84.5	65	40	0.5	DPC1271100*3***
	140	1.5	4.8	65	18	2520	84.5	65	40	0.5	DPC1471100*3***
	150	1.5	4.6	65	18	2700	84.5	76	45	0.55	DPC1571100*4***
	190	1.7	4.6	61	16	3040	84.5	76	45	0.55	DPC1971100*4***
	240	1.2	3.7	82	14	3360	115	64	40	0.9	DPC2471100*5***
1300	70	1.4	5.3	63	26	1820	84.5	51	32	0.4	DPC7061300*2***
	100	1.8	5.0	57	19	1900	84.5	65	40	0.5	DPC1071300*3***
	130	1.9	4.6	58	16	2080	84.5	76	45	0.55	DPC1371300*4***
1400	56	1.5	5.3	61	28	1568	84.5	51	32	0.4	DPC5661400*2***
	86	1.8	5.0	57	20	1720	84.5	65	40	0.5	DPC8661400*3***
	110	1.9	4.6	58	16	1760	84.5	76	45	0.55	DPC1171400*4***
1500	50	1.6	5.3	59	30	1500	84.5	51	32	0.4	DPC5061500*2***
	76	1.9	5.0	56	22	1672	84.5	65	32	0.5	DPC7661500*3***
	95	2.1	4.6	55	18	2710	84.5	76	40	0.55	DPC9561500*4***

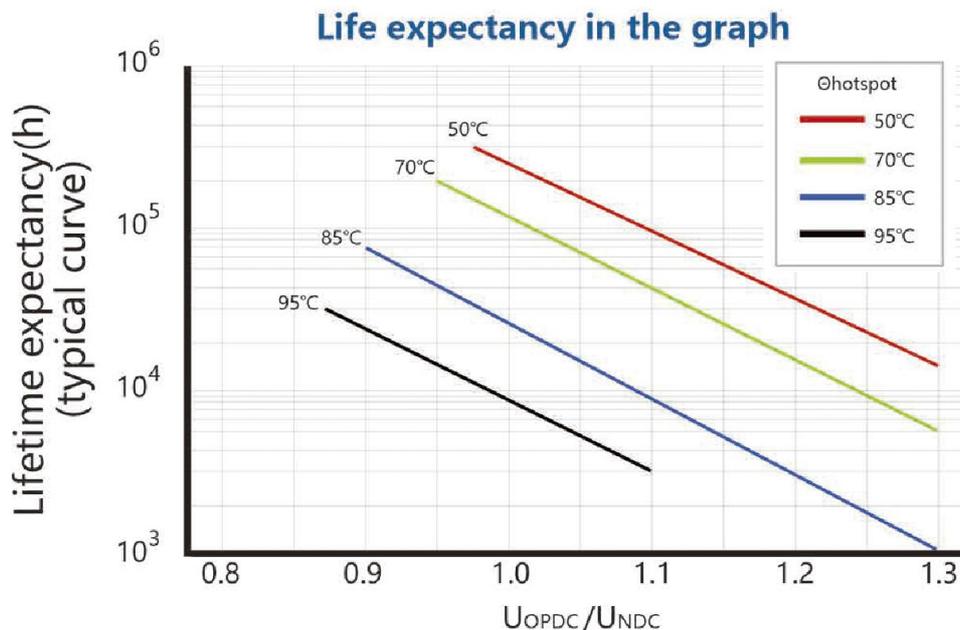


**Application**

- Widely used in DC - Link circuit for filtering energy storage.
- Can replace electrolytic capacitors, better performance and longer life.
- Pv inverter, wind power converter; All kinds of frequency converter and inverter power supply; Pure electric and hybrid cars; charging pile, UPS, etc.

**Technical data**

Operating temperature range	Max. Operating temperature., Top, max : + 105°C Upper category temperature : +85°C Lower category temperature : -40°C
(C <sub>N</sub> ) Capacitance range	1μF - 200μF
(U <sub>N</sub> ) Rated voltage	450V.DC - 1800V.DC
Cap.tol	±5% (J) ; ±10% (K)
Withstand voltage	1.5U <sub>N</sub> DC / 60S
Over voltage	1.1U <sub>N</sub> ( 30% of on - load - dur. )
	1.15U <sub>N</sub> ( 30min / day )
	1.2U <sub>N</sub> ( 5min / day )
	1.3U <sub>N</sub> ( 1min / day )
	1.5U <sub>N</sub> (100ms every time, 1000times during the lifetime )
Dissipation factor	tgδ ≤ 0.0015 f = 100Hz
Insulation resistance	R <sub>s</sub> × C > 10000s ( at 20°C 100V.DC )
Withstand strike current	See the specification sheet
I <sub>rms</sub>	See the specification sheet
Flame retardation	UL94V - 0
Reference standard	IEC61071



#### Part number system

Model			Capacitance			U <sub>N</sub> (DC)				Cap. tol	Number of leads	P1	P2	Length of leads	Internal feature code	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
D	P	S	7	5	6	0	7	0	0	J	1			1	0	1

1 ~ 3 Model

4 ~ 6 Nominal Capacity

e.g. 756= 75×10<sup>6</sup>pF= 75μF

7 ~ 10 U<sub>N</sub>(DC)

e.g. 0700= 700VDC

11 Capacitance Tolerance

±5% (J) ; ±10% (K)

12 Number of leads

2: 2 pins

4: 4 pins

6: 6 pins

13 Distance between mounting holes P1

1: P1= 37.5mm

2: P1= 52.5mm

3: others

14 Distance between mounting holes P2

0: no

1: P2= 10.2mm

2: P2= 20.3mm

3: others

C <sub>N</sub> (μF)	Number of wires	φD (mm)	W (mm)	T (mm)	H (mm)	Mounting hole distance (mm)		ESR (mΩ)	dv/dt (V/μs)	I <sub>p</sub> (A)	I <sub>rms</sub> @10kHz85°C (A)	Part number
						P1	P2					
U <sub>N</sub> 450V.DC (85°C) 550V.DC(70°C) 300V.DC(105°C)												
4	2	0.8	32	11	20	27.5	----	20.5	75	300	4	DPS4050450*230***
5	2	0.8	32	11	20	27.5	----	21.9	75	375	5	DPS5050450*230***
7	2	0.8	32	15	24	27.5	----	11.5	75	525	6.5	DPS7050450*230***
10	2	0.8	32	15	24	27.5	----	7.5	75	750	6.5	DPS1060450*230***
12	2	1	32	21	31	27.5	----	7	75	900	10	DPS1260450*230***
20	2	1.2	42.5	24.5	27.5	37.5	----	7	40	800	11	DPS2060450*210***
22	2	0.8	32	22	37	27.5	----	5.9	75	1650	10	DPS2260450*230***
30	4	1.2	42	24	44	37.5	20.3	6.5	40	1200	15	DPS3060450*412***
45	4	1.2	42.5	29	37	37.5	20.3	6	40	1800	17	DPS4560450*412***
50	4	1.2	42.5	30	45	37.5	20.3	4	40	2000	16	DPS5060450*412***
60	4	1.2	42.5	30	45	37.5	20.3	4.5	40	2400	18.5	DPS6060450*412***
60	4	1.2	42.5	33	45	37.5	20.3	4.5	40	2400	18.5	DPS6060450*412***
75	4	1.2	42.5	35	50	37.5	20.3	3	20	1500	19	DPS7560450*412***
75	4	1.2	57.5	30	45	52.5	20.3	3.2	20	1500	18	DPS7560450*422***
80	4	1.2	57.5	30	45	52.5	20.3	5	20	1600	16.5	DPS8060450*422***
100	4	1.2	42.5	40	55	37.5	20.3	2.8	20	2000	20	DPS1070450*412***
100	4	1.2	57.5	35	50	52.5	20.3	3	20	2000	22	DPS1070450*422***
110	4	1.2	57.5	35	50	52.5	20.3	3	20	2200	23	DPS1170450*422***
120	4	1.2	57.5	38	54	52.5	20.3	2.8	20	2400	25	DPS1270450*422***
140	4	1.2	57.5	35	65	52.5	20.3	2.5	20	2800	26.7	DPS1470450*422***
140	4	1.2	57.5	45	65	52.5	20.3	2.5	20	2800	28	DPS1470450*422***
150	4	1.2	57.5	42.5	56	52.5	20.3	2.5	20	3000	28	DPS1570450*422***
150	4	1.2	57.5	45	55	52.5	20.3	2.5	20	3000	28	DPS1570450*422***
200	4	1.2	57.5	45	65	52.5	20.3	2.3	20	4000	28	DPS2070450*422***
U <sub>N</sub> 600V.DC (85°C) 700V.DC(70°C) 450V.DC(105°C)												
12	2	0.8	32	18	33	27.5	----	10.8	75	900	12	DPS1260600*230***
30	4	1	42	24	44	37.5	12.7	6.5	30	900	18.5	DPS3060600*413***
50	4	1.2	42.5	35	50	37.5	20.3	4.2	30	1500	28.7	DPS5060600*412***
110	4	1.2	57.5	35	50	52.5	20.3	3	20	2200	23	DPS1170600*422***
110	4	1.2	57.5	45	55	52.5	20.3	3	20	2200	27	DPS1170600*422***
140	4	1.2	57.5	45	65	52.5	20.3	3	15	2800	35	DPS1470600*422***

U<sub>N</sub> 700V.DC (85°C) 800V.DC(70°C) 500V.DC(105°C)

2	2	0.8	32	9	18	27.5	----	47.8	75	150	2.8	DPS2050700*230***
3	2	0.8	32	11	20	27.5	----	23	75	225	4	DPS3050700*230***
4	2	0.8	32	11	20	27.5	----	23.9	75	300	4.1	DPS4050700*230***
5	2	0.8	32	15	24	27.5	----	14	75	375	6	DPS5050700*230***
6	2	0.8	32	15	24	27.5	----	18.6	75	450	7.1	DPS6050700*230***
7	2	0.8	32	15	24	27.5	----	15.9	75	525	8.3	DPS7050700*230***
8	2	1	32	18	28	27.5	----	8.5	75	600	8.5	DPS8050700*230***
9	2	0.8	32	15	30	27.5	----	12.4	75	675	10.7	DPS9050700*230***
10	2	1	32	21	31	27.5	----	7	75	750	10	DPS1060700*230***
10	2	1.2	42.5	24.5	27.5	37.5	----	10	40	400	10	DPS1060700*210***
12	2	0.8	32	18	33	27.5	----	10.8	75	900	12	DPS1260700*230***
12	2	1.2	32	22	37	27.5	----	9	75	900	11.5	DPS1260700*230***
12	2	1	41	16	32	37.5	----	16.3	40	480	7.4	DPS1260700*210***
15	2	0.8	32	22	37	27.5	----	9	75	1125	12	DPS1560700*230***
15	4	0.8	32	22	37	27.5	10.2	7.4	75	1125	16.5	DPS1560700*431***
18	2	0.8	32	22	37	27.5	----	8	75	1350	12	DPS1860700*230***
18	4	0.8	32	22	37	27.5	10.2	6.2	75	1350	17	DPS1860700*431***
20	4	1	42	24	44	37.5	10.2	7.5	40	800	12	DPS2060700*411***
20	4	1.2	42	24	44	37.5	20.3	7.5	40	800	12	DPS2060700*412***
25	4	1.2	42.5	29	37	37.5	20.3	6	40	1000	12	DPS2560700*412***
40	4	1.2	42.5	33	45	37.5	20.3	5.5	40	1600	13	DPS4060700*412***
40	4	1.2	57.5	30	45	52.5	20.3	6	20	800	15	DPS4060700*422***
45	4	1.2	42.5	35	50	37.5	20.3	5	40	1800	15	DPS4560700*412***
50	4	1.2	57.5	30	45	52.5	20.3	5.5	20	1000	18	DPS5060700*422***
55	4	1.2	42.5	40	55	37.5	20.3	4.5	40	2200	18	DPS5560700*412***
60	4	1.2	57.5	35	50	52.5	20.3	5	20	1200	20	DPS6060700*422***
75	4	1.2	57.5	35	50	52.5	20.3	4.5	20	1500	22	DPS7560700*422***
80	4	1.2	57.5	38	54	52.5	20.3	4	20	1600	22	DPS8060700*422***
90	4	1.2	57.5	42.5	56	52.5	20.3	3.5	20	1800	25	DPS9060700*422***
100	4	1.2	57.5	42.5	56	52.5	20.3	3.2	20	2000	27.5	DPS1070700*422***
100	4	1.2	57.5	45	55	52.5	20.3	3.2	20	2000	27.5	DPS1070700*422***
110	4	1.2	57.5	45	65	52.5	20.3	3	20	2200	28	DPS1170700*422***

U<sub>N</sub> 800V.DC (85°C) 900V.DC(70°C) 570V.DC(105°C)

2	2	0.8	32	9	18	27.5	---	45.4	75	75	2.9	DPS2050800*230***
2	2	0.8	32	11	20	27.5	---	31	75	150	3.5	DPS2050800*230***
3	2	0.8	32	11	20	27.5	----	30.3	75	225	4.4	DPS3050800*230***
3.3	2	0.8	32	16	30	27.5	----	18.8	75	247.5	7	DPS3350800*230***
4	2	0.8	32	15	24	27.5	----	15.5	75	300	5.5	DPS4050800*230***
5	2	0.8	32	15	24	27.5	----	18.2	75	375	7.3	DPS5050800*230***
6	2	1	32	18	28	27.5	----	10.5	75	450	7.5	DPS6050800*230***
7	2	0.8	32	15	32	27.5	----	13	75	525	10.2	DPS7050800*230***
8	2	1	32	21	31	27.5	----	8	75	600	9.5	DPS8050800*230***
8	2	1	41	16	32	37.5	----	22.3	40	320	5.4	DPS8050800*210***
9	2	0.8	32	18	33	27.5	----	11.1	75	675	11.8	DPS9050800*230***
9	2	1	41	16	32	37.5	----	19.8	40	360	6.1	DPS9050800*210***
10	2	0.8	32	22	37	27.5	----	11	75	750	12	DPS1060800*230***
10	4	0.8	32	22	37	27.5	10.2	9.1	75	750	14.5	DPS1060800*431***
10	2	1	41	18.5	33.5	37.5	----	17.8	40	400	6.7	DPS1060800*210***
11	2	0.8	32	22	37	27.5	----	10	75	825	12	DPS1160800*230***
11	4	0.8	32	22	37	27.5	10.2	8.3	75	825	16	DPS1160800*431***
12	2	0.8	32	22	37	27.5	----	9.3	75	900	12	DPS1260800*230***
12	4	0.8	32	22	37	27.5	10.2	7.6	75	900	16	DPS1260800*431***
12	2	1	41	18.5	33.5	37.5	----	14.9	40	480	8.1	DPS1260800*210***
13	2	0.8	32	22	37	27.5	----	8.8	75	975	12	DPS1360800*230***
13	4	0.8	32	22	37	27.5	12.7	8.1	75	975	16.2	DPS1360800*433***
14	2	0.8	32	22	37	27.5	----	8.2	75	1050	12	DPS1460800*230***
14	4	0.8	32	22	37	27.5	12.7	7.6	75	1050	16.5	DPS1460800*433***
14	2	1	41	18.5	33.5	37.5	----	13.8	40	560	9.4	DPS1460800*210***
15	2	1.2	42	24	44	37.5	----	10	40	600	10	DPS1560800*210***
15	4	1	42	20	40	37.5	10.2	11.9	40	600	10.1	DPS1560800*411***
20	4	1	42	24	44	37.5	12.7	8.9	40	800	13.5	DPS2060800*413***
20	4	1.2	42.5	29	37	37.5	20.3	7.5	40	800	12	DPS2060800*412***
25	4	1	42	24	44	37.5	12.7	7.1	40	1000	16.8	DPS2560800*413***
25	4	1.2	57.5	25	45	52.5	12.7	14.3	20	500	8.4	DPS2560800*423***
30	4	1.2	42.5	30	45	37.5	12.7	5.9	40	1200	20.2	DPS3060800*413***
30	4	1.2	42.5	33	45	37.5	20.3	4.5	40	1200	16	DPS3060800*412***
30	4	1.2	57.5	25	45	52.5	12.7	11.9	20	600	10.1	DPS3060800*423***
35	4	1.2	42.5	35	50	37.5	20.3	5.5	40	1400	22	DPS3560800*412***
35	4	1.2	57.5	25	45	52.5	12.7	10.2	20	700	11.8	DPS3560800*423***
35	4	1.2	57.5	30	45	52.5	20.3	5.5	20	700	14	DPS3560800*422***
40	4	1.2	42.5	35	50	37.5	20.3	4.8	40	1600	25.1	DPS4060800*412***
40	4	1.2	57.5	30	45	52.5	20.3	8.9	20	800	13.5	DPS4060800*422***
45	4	1.2	42.5	35	50	37.5	20.3	4.2	40	1800	17	DPS4560800*412***
45	4	1.2	57.5	30	45	52.5	20.3	7.9	20	900		DPS4560800*422***
50	4	1.2	42.5	40	55	37.5	20.3	3.8	40	2000	31.4	DPS5060800*412***
50	4	1.2	57.5	30	45	52.5	20.3	5	20	1000	16	DPS5060800*422***
50	4	1.2	57.5	35	50	52.5	20.3	4.5	20	1000	18	DPS5060800*422***
55	4	1.2	42.5	40	55	37.5	20.3	4	40	2200	18	DPS5560800*412***
55	4	1.2	57.5	35	50	52.5	20.3	6.5	20	1100	18.5	DPS5560800*422***
60	4	1.2	42.5	45	60	37.5	20.3	3.2	40	2400	35	DPS6060800*412***
60	4	1.2	57.5	38	54	52.5	20.3	4.5	20	1200	20	DPS6060800*422***
65	4	1.2	42.5	45	60	37.5	20.3	2.9	40	2600	35	DPS6560800*412***
65	4	1.2	57.5	45	55	52.5	20.3	5.5	20	1300	21.9	DPS6560800*422***
70	4	1.2	57.5	42.5	56	52.5	20.3	3.5	20	1400	22	DPS7060800*422***
75	4	1.2	57.5	45	55	52.5	20.3	3.2	20	1500	24	DPS7560800*422***
80	4	1.2	57.5	45	55	52.5	20.3	4.6	20	1600	25.9	DPS8060800*422***
85	4	1.2	57.5	45	65	52.5	20.3	3	20	1700	26	DPS8560800*422***
90	4	1.2	57.5	45	55	52.5	20.3	4.2	20	1800	28.3	DPS9060800*422***
95	4	1.2	57.5	45	65	52.5	20.3	4	20	1900	29.8	DPS9560800*422***
100	4	1.2	57.5	45	65	52.5	20.3	3.8	20	2000	31.4	DPS1070800*422***
110	4	1.2	57.5	45	65	52.5	20.3	3.5	20	2200	34.5	DPS1170800*422***

U<sub>N</sub> 900 (85°C) 1000V.DC(70°C) 600V.DC(105°C)

1	2	0.8	32	9	18	27.5	----	86	75	75	1.5	DPS1050900*230***
2	2	0.8	32	11	20	27.5	----	43	75	150	3.1	DPS2050900*230***
3	2	0.8	32	13	22	27.5	----	28.7	75	225	4.6	DPS3050900*230***
4	2	0.8	32	15	24	27.5	----	21.5	75	300	6.1	DPS4050900*230***
5	2	0.8	32	15	30	27.5	----	17.2	75	375	7.7	DPS5050900*230***
5	2	1	41	16	32	37.5	----	33.4	40	200	3.6	DPS5050900*210***
6	2	0.8	32	18	33	27.5	-----	18	75	450	6.9	DPS6050900*230***
6	2	1	41	16	32	37.5	-----	27.9	40	240	4.3	DPS6050900*210***
7	2	0.8	32	18	33	27.5	----	13	75	525	10.2	DPS7050900*230***
7	2	1	41	16	32	37.5	----	23.9	40	280	5	DPS7050900*210***
8	2	0.8	32	22	37	27.5	----	11.5	75	600	11.4	DPS8050900*230***
8	4	0.8	32	22	37	27.5	10.2	10.7	75	600	12.3	DPS8050900*431***
8	2	1	41	18.5	33.5	37.5	----	20.9	40	320	5.7	DPS8050900*210***
9	2	0.8	32	22	37	27.5	----	10.4	75	675	12	DPS9050900*230***
9	4	0.8	32	22	37	27.5	12.7	9.6	75	675	13.8	DPS9050900*433***
10	2	0.8	32	22	37	27.5	----	12	75	750	12.2	DPS1060900*230***
10	4	0.8	32	22	37	27.5	12.7	8.6	75	750	15.4	DPS1060900*433***
10	4	1.0	42	20	40	37.5	10.2	16.7	40	400	7.2	DPS1060900*411***
12	4	1.0	41	22	37	37.5	10.2	13.9	40	480	8.6	DPS1260900*411***
15	4	1.0	42	24	44	37.5	12.7	11.1	40	600	10.8	DPS1560900*413***
15	4	1.2	57.5	25	45	52.2	10.2	22.3	20	300	5.4	DPS1560900*421***
18	4	1.0	42	24	44	37.5	12.7	9.3	40	720	12.9	DPS1860900*413***
20	4	1.0	42	24	44	37.5	12.7	8.4	40	800	14.4	DPS2060900*413***
20	4	1.2	57.5	25	45	52.5	12.7	16.7	20	400	7.2	DPS2060900*423***
25	4	1.2	42.5	30	45	37.5	12.7	6.7	40	1000	17.9	DPS2560900*413***
25	4	1.2	42.5	30	45	37.5	20.3	6.7	40	1000	17.9	DPS2560900*412***
25	4	1.2	57.5	25	45	52.5	12.7	13.4	20	500	9	DPS2560900*423***
30	4	1.2	42.5	35	50	37.5	20.3	5.6	40	1200	21.5	DPS3060900*412***
30	4	1.2	57.5	30	45	52.5	20.3	11.1	20	600	10.8	DPS3060900*422***
35	4	1.2	42.5	40	55	37.5	20.3	5.1	40	1400	23.4	DPS3560900*412***
35	4	1.2	57.5	30	45	52.5	20.3	9.6	20	700	12.6	DPS2560900*422***
40	4	1.2	42.5	40	55	37.5	20.3	4.5	40	1600	26.8	DPS4060900*412***
40	4	1.2	57.5	35	50	52.5	20.3	8.4	20	800	14.4	DPS4060900*422***
45	4	1.2	42.5	45	60	37.5	20.3	4	40	1800	30.1	DPS4560900*412***
45	4	1.2	57.5	35	50	52.2	20.3	7.4	20	900	16.1	DPS4560900*422***
50	4	1.2	42.5	45	60	37.5	20.3	3.6	40	2000	33.5	DPS5060900*412***
50	4	1.2	57.5	35	50	52.5	20.3	6.7	20	1000	17.9	DPS5060900*422***
55	4	1.2	57.5	45	55	52.5	20.3	6.1	20	1100	19.7	DPS5560900*422***
60	4	1.2	57.5	45	55	52.5	20.3	5.6	20	1200	21.5	DPS6060900*422***
65	4	1.2	57.5	45	55	52.5	20.3	5.1	20	1300	23.3	DPS6560900*422***
70	4	1.2	57.5	45	65	52.5	20.3	4.8	20	1400	25.1	DPS7060900*422***
75	4	1.2	57.5	45	65	52.5	20.3	4.7	20	1500	25.7	DPS7560900*422***
80	4	1.2	57.5	45	65	52.5	20.3	4.5	20	1600	26.8	DPS8060900*422***
85	4	1.2	57.5	45	65	52.5	20.3	4.2	20	1700	28.5	DPS8560900*422***

U<sub>N</sub> 1000 (85°C) 1100V.DC(70°C) 680V.DC(105°C)

1	2	0.8	32	9	18	27.5	----	76.4	75	75	1.7	DPS1051000230***
2	2	0.8	32	13	22	27.5	----	38.2	75	150	3.5	DPS2051000230***
3	2	0.8	32	15	24	27.5	----	25.5	75	225	5.2	DPS3051000*230***
4	2	0.8	32	15	30	27.5	----	19.1	75	300	6.9	DPS4051000*230***
5	2	0.8	32	18	33	27.5	----	15.3	75	375	8.6	DPS5051000*230***
5	2	1	41	16	32	37.5	----	31.2	40	200	3.8	DPS5051000*210***
6	2	0.8	32	18	33	27.5	----	14.9	75	450	8.9	DPS6051000*230***
6	2	1	41	16	32	37.5	----	26	40	240	4.6	DPS6051000*210***
7	2	0.8	32	22	37	27.5	----	14.5	75	525	9.4	DPS7051000*230***
7	4	0.8	32	22	37	27.5	12.7	11.4	75	525	11.6	DPS7051000*433***
7	2	1	41	18.5	33.5	37.5	----	22.3	40	280	5.4	DPS7051000*210***
8	2	0.8	32	22	37	27.5	----	13	75	600	10.8	DPS8051000*230***
8	4	0.8	32	22	37	27.5	12.7	10	75	600	13.3	DPS8051000*433***
8	2	1	41	18.5	33.5	37.5	----	19.5	40	320	6.2	DPS8061000*210***
10	2	1	42	20	40	37.5	----	15.6	40	400	6.7	DPS1061000*210***
10	4	1	42	20	40	37.5	10.2	15.6	40	400	7.7	DPS1061000*411***
12	2	1	41	22	37	37.5	----	15	40	480	8	DPS1261000*210***
12	4	1	41	22	37	37.5	12.7	13	40	480	9.2	DPS1261000*413***
15	4	1	42	24	44	37.5	12.7	10.4	40	600	11.5	DPS1561000*413***
15	4	1.2	57.5	25	45	52.5	12.7	20.8	20	300	5.8	DPS1561000*423***
18	4	1.2	42.5	30	45	37.5	12.7	8.7	40	720	13.8	DPS1861000*413***
18	4	1.2	42.5	30	45	37.5	20.3	8.7	40	720	13.8	DPS1861000*412***
20	4	1.2	42.5	30	45	37.5	12.7	7.8	40	800	15.4	DPS2061000*413***
20	4	1.2	42.5	30	45	37.5	20.3	7.8	40	800	15.4	DPS2061000*412***
20	4	1.2	57.5	25	45	52.5	12.7	15.6	20	400	7.7	DPS2061000*423***
25	4	1.2	42.5	35	50	37.5	20.3	6.2	40	1000	19.2	DPS2561000*412***
25	4	1.2	57.5	25	45	52.5	12.7	12.5	20	500	9.6	DPS2561000*423***
30	4	1.2	42.5	40	55	37.5	20.3	5.2	40	1200	23.1	DPS3061000*412***
30	4	1.2	57.5	30	45	52.5	20.3	10.4	20	600	11.5	DPS3061000*422***
30	4	1.2	57.5	30	45	52.5	20.3	10.4	20	600	11.5	DPS3061000*422***
35	4	1.2	42.5	40	55	37.5	20.3	4.8	40	1400	25.1	DPS3561000*412***
35	4	1.2	57.5	35	50	52.5	20.3	8.9	20	700	13.5	DPS3561000*422***
40	4	1.2	42.5	45	60	37.5	20.3	4.2	40	1600	28.7	DPS4061000*412***
40	4	1.2	57.5	35	50	52.5	20.3	7.8	20	800	15.4	DPS4061000*422***
45	4	1.2	57.5	45	55	52.5	20.3	6.9	20	900	17.3	DPS4561000*422***
50	4	1.2	57.5	45	55	52.5	20.3	6.2	20	1000	19.2	DPS5061000*422***
55	4	1.2	57.5	45	55	52.5	20.3	5.7	20	1100	21.1	DPS5561000*422***
60	4	1.2	57.5	45	65	52.5	20.3	5.2	20	1200	23.1	DPS6061000*422***
65	4	1.2	57.5	45	65	52.5	20.3	4.8	20	1300	25	DPS6561000*422***
70	4	1.2	57.5	45	65	52.5	20.3	4.5	20	1400	26.9	DPS7061000*422***

U<sub>N</sub> 1100 (85°C) 1200V.DC(70°C) 750V.DC(105°C)

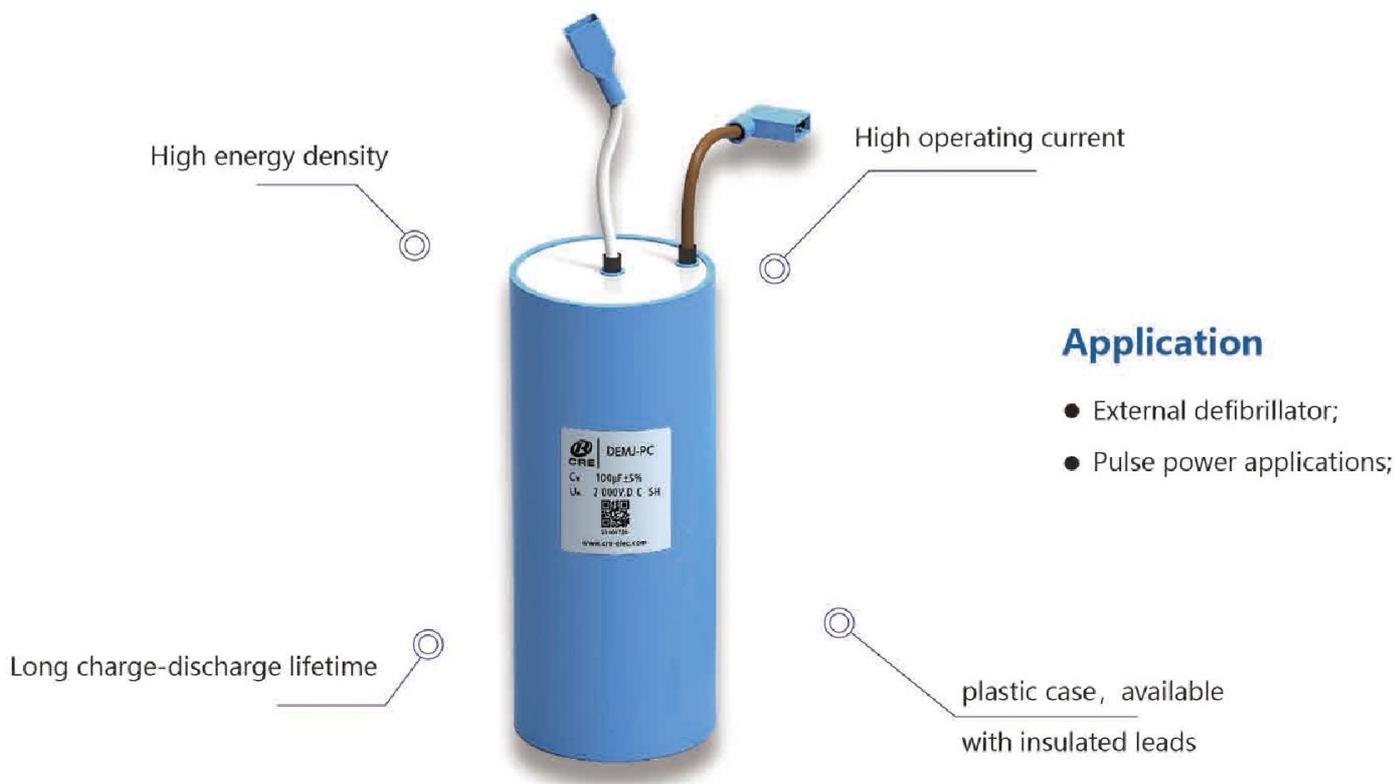
1	2	0.8	32	11	21	27.5	----	45.5	95	95	3	DPS1051100*230***
2	2	0.8	32	13	25	27.5	----	23	95	190	5	DPS2051100*230***
2	2	0.8	32	15	24	27.5	----	23	95	190	4.5	DPS2051100*230***
3	2	1	32	18	28	27.5	----	15.5	95	285	6	DPS3051100*230***
4	2	1	32	21	31	27.5	----	11.5	95	380	8	DPS4051100*230***
10	2	1.2	42	24	44	37.5	----	11	40	429	11	DPS1061100*210***
12	4	1	42	24	44	37.5	10.2	8	40	600	12.5	DPS1261100*411***
15	4	1	42	24	44	37.5	12.7	8	40	600	11.5	DPS1561100*413***
15	4	1.2	42.5	29	37	37.5	20.3	8	40	600	15	DPS1561100*412***
20	4	1.2	42.5	30	45	37.5	20.3	5	40	800	18	DPS2061100*412***
20	4	1.2	42.5	33	45	37.5	20.3	5	40	800	18	DPS2061100*412***
20	4	1.2	42.5	35	50	37.5	20.3	7.2	40	800	18	DPS2061100*412***
20	4	1.2	57.5	30	45	52.5	20.3	7	25	500	15	DPS2061100*422***
25	4	1.2	57.5	35	50	52.5	20.3	6	25	625	17	DPS2561100*422***
30	4	1.2	57.5	30	45	52.5	20.3	5	25	750	18	DPS3061100*422***
30	4	1.2	57.5	35	50	52.5	20.3	5	25	750	18	DPS3061100*422***
35	4	1.2	42.5	35	50	37.5	20.3	4.5	40	1400	19	DPS3561100*412***
40	4	1.2	57.5	35	50	52.5	20.3	5	25	1000	18	DPS4061100*422***
45	4	1.2	57.5	38	54	52.5	20.3	4.5	25	1125	18.5	DPS4561100*422***
50	4	1.2	57.5	42.5	56	52.5	20.3	3.5	25	1250	20	DPS5061100*422***
55	4	1.2	57.5	42.5	56	52.5	20.3	3.5	25	1375	21	DPS5561100*422***
60	4	1.2	57.5	45	55	52.5	20.3	3.2	25	1500	22	DPS6061100*422***
70	4	1.2	57.5	45	65	52.5	20.3	3	25	1750	24	DPS7061100*422***

U<sub>N</sub> 1200V.DC (85°C) 1500V.DC(70°C) 850V.DC(105°C)

1	2	0.8	32	11	21	27.5	----	43	100	100	3	DPS1051200*230***
2	2	0.8	32	15	25	27.5	----	21.5	100	200	5	DPS2051200*230***
3	2	1	32	18	28	27.5	----	14.5	100	300	6.5	DPS3051200*230***
4	2	1	32	21	31	27.5	----	11	100	400	8	DPS4051200*230***
5	2	1	41.5	18.5	33.5	37.5	----	10	80	400	9	DPS5051200*210***
10	4	1	42	24	44	37.5	12.7	8	40	600	10.8	DPS1061200*413***
12	4	1.2	42.5	30	45	37.5	20.3	5	50	600	15	DPS1261200*412***
12	4	1.2	57.5	30	45	52.5	20.3	11	40	480	13	DPS1261200*422***
18	4	1.2	42.5	35	50	37.5	20.3	4.5	50	900	18	DPS1861200*412***
20	4	1.2	42.5	40	55	37.5	20.3	7	50	1000	16	DPS2061200*412***
20	4	1.2	57.5	35	50	52.5	20.3	8	40	800	17	DPS2061200*422***
25	4	1.2	57.5	42.5	56	52.5	20.3	7	40	1000	20	DPS2561200*422***
40	4	1.2	57.5	45	55	52.5	20.3	6	25	1000	22	DPS4061200*422***
45	4	1.2	57.5	45	65	52.5	20.3	5.5	25	1125	24	DPS4561200*422***

U<sub>N</sub> 1800V.DC (85°C) 2000V.DC(70°C) 1100V.DC(105°C)

6	4	1.2	42.5	30	45	37.5	20.3	24	100	600	5	DPS6051800*412***
8	4	1.2	42.5	35	50	37.5	20.3	20	100	800	8	DPS8051800*412***
10	4	1.2	42.5	40	55	37.5	20.3	18	100	1000	10	DPS1061800*412***
8	4	1.2	57.5	30	45	52.5	20.3	12	50	400	13	DPS8051800*422***
10	4	1.2	57.5	35	50	52.5	20.3	10	50	500	17	DPS1061800*422***
15	4	1.2	57.5	42.5	56	52.5	20.3	8	50	750	20	DPS1561800*422***
18	4	1.2	57.5	45	55	52.5	20.3	7.5	50	900	21	DPS1861800*422***
20	4	1.2	57.5	45	65	52.5	20.3	7	45	900	22	DPS2061800*422***



### Application

- External defibrillator;
- Pulse power applications;

### Technical data

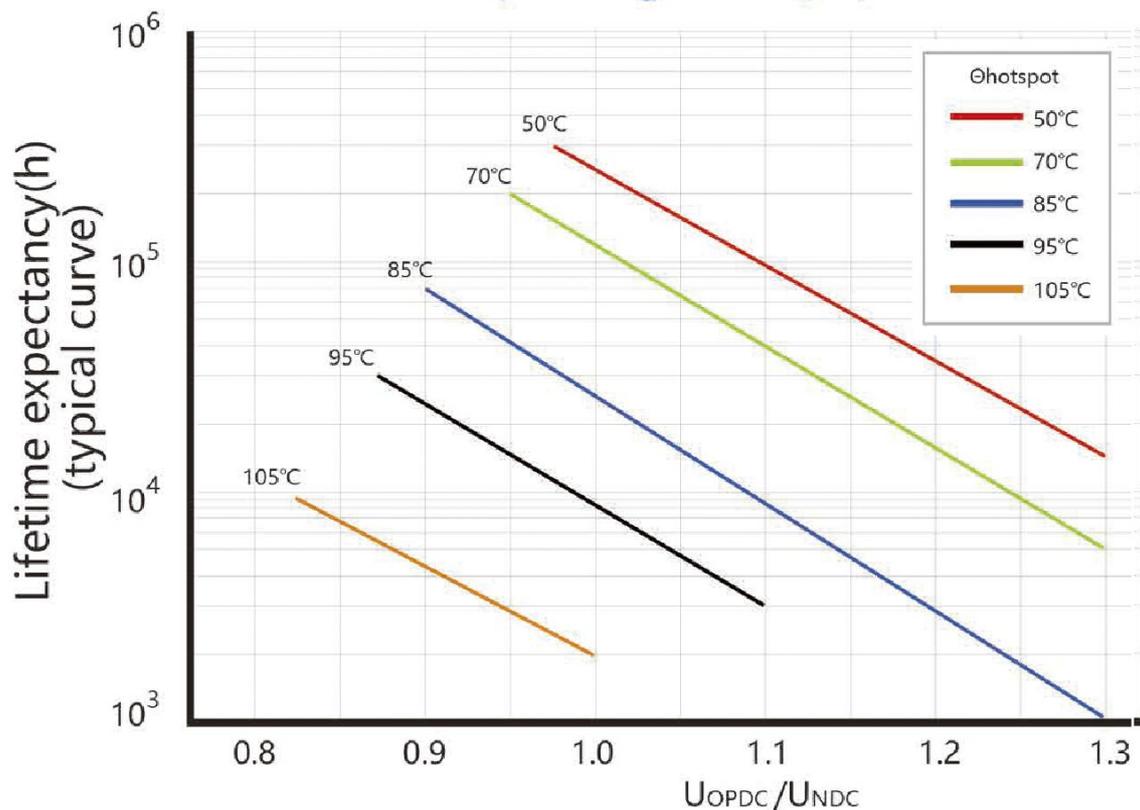
Operating temperature range	Max.Operating temperature.,Top, max : +105°C Upper category temperature: + 85°C Lower category temperature : - 40°C
Capacitance range	32µF~200µF
Rated voltage	1500V.DC - 5000V.DC
energy	400J~500J
Cap.tol	± 5%(J); ± 10%(K)
Withstand strike current	5~10kA
Withstand voltage	1.1UN (50ms every time, 1000 times during the whole life)
Insulation resistance	Rs × C ≥ 10000s (at 20°C 5000V.DC)
life time expectancy	10000 pulse @ 55°C, 95%RH UN
Failure rate	100fit
Flame retardation	UL94V-0
Reference standard	JB/T8168



### Application

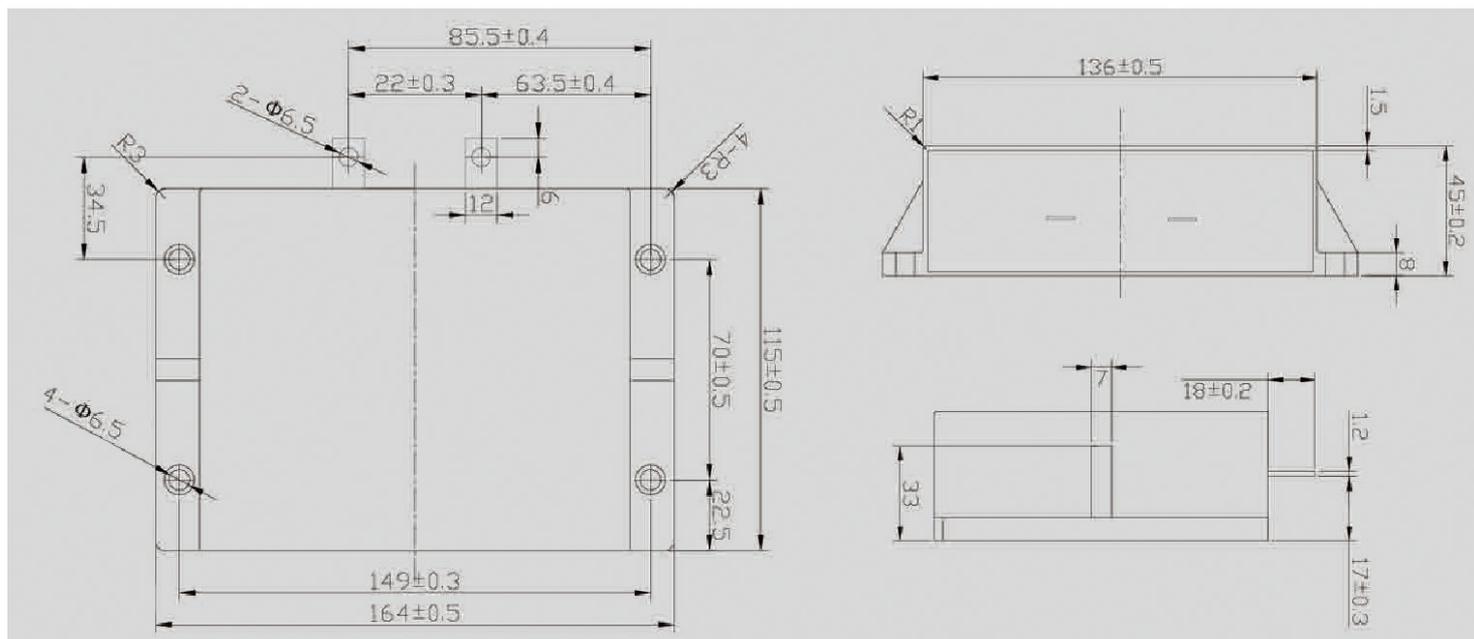
- Widely used in EV and HEV.

### Life expectancy in the graph



МКР61А0450D587К\*\*

Size chart

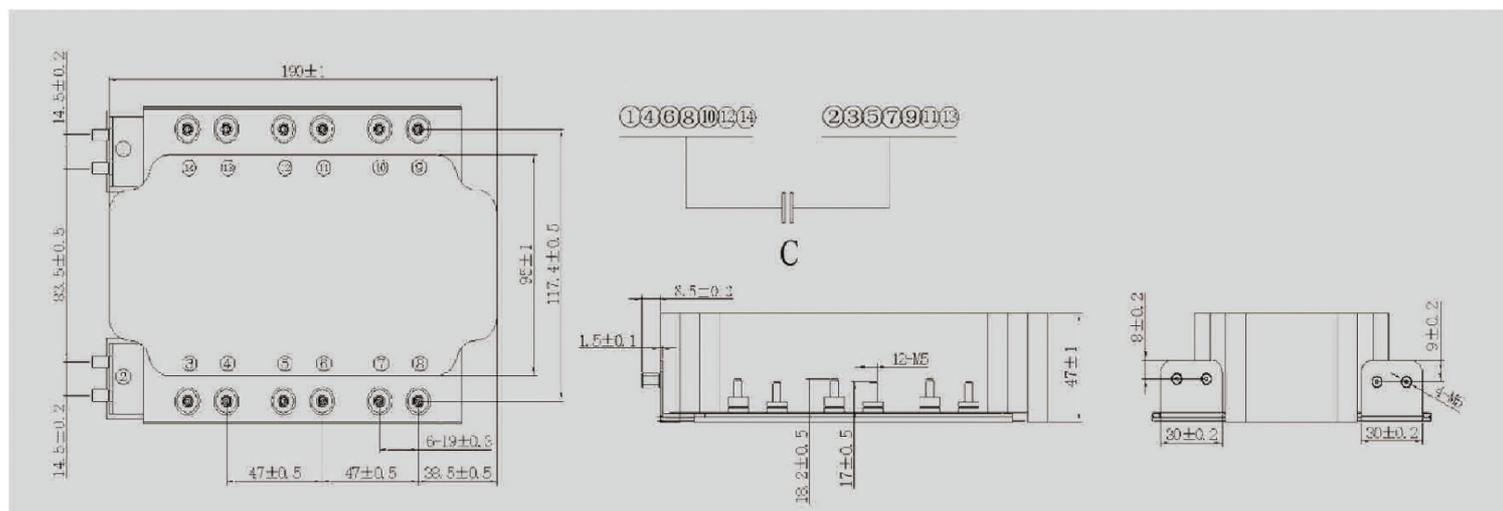


Technical data

Operating temperature range	-40°C ~ 105°C	
Storage temperature range	-40°C ~ 105°C	
(U <sub>N</sub> ) Rated voltage	450V.DC	
(C <sub>N</sub> ) Rated capacitance	580µF	
Cap.tol	±10% (K)	
Withstand voltage	Vt - t	1.5U <sub>N</sub> / 10s ( 20°C ± 5°C )
	Vt - c	3000V.AC /10s ( 50Hz , 20°C±5°C )
Dissipation factor	tgδ≤0.001 f = 100Hz	
	tgδ <sub>0</sub> ≤0.0002	
Insulation resistance	R <sub>s</sub> ×C≥10000s ( at20°C 100V.DC 60s )	
ESR	≤.0.6mΩ( 10kHz )	
L <sub>s</sub>	≤15nH	
R <sub>th</sub>	3.5K/W	
Max. current I <sub>rms</sub>	80A ( 70°C )	
Non-recurrent surge voltage(U <sub>s</sub> )	675V.DC	
Maximum peak current(I)	5.8kA	
Maximum surge current( I <sub>s</sub> )	11.6kA	
Failure quota	≤50fit	
Life expectancy	Reference life expectancy curve	
Reference standard	IEC61071 ; AEC Q200D - 2010	
Weight	≈1.0kg	
Dimension	164mm x 115mm x 45mm	

DPS2061100\*412\*\*\*

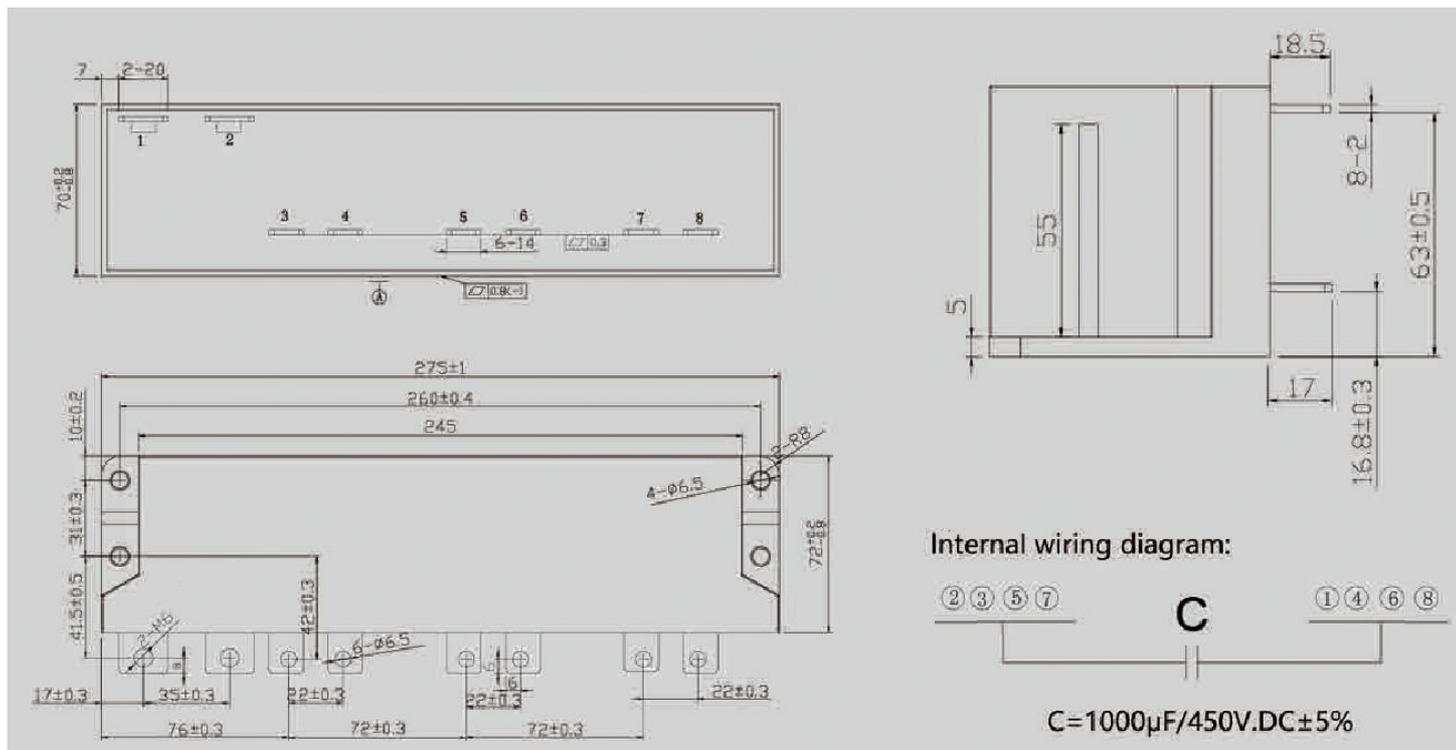
Size chart



Technical data

Operating temperature range	-40°C ~ 105°C	
Storage temperature range	-40°C ~ 105°C	
(U <sub>N</sub> ) Rated voltage	750V.DC	
(C <sub>N</sub> ) Rated capacitance	320µF	
Cap.tol	±10% (K)	
Withstand voltage	Vt - t	1.5U <sub>N</sub> / 10s ( 20°C ± 5°C )
	Vt - c	3000V.AC /10s ( 50Hz , 20°C±5°C )
Dissipation factor	tgδ ≤ 0.001 f = 100Hz	
	tgδ <sub>0</sub> ≤ 0.0002	
Insulation resistance	R <sub>s</sub> × C ≥ 10000S ( at 20°C 100V.DC 60s )	
ESR	≤ 0.6mΩ ( 10kHz )	
L <sub>s</sub>	≤ 15nH	
R <sub>th</sub>	0.3K/W	
Max. current I <sub>rms</sub>	300A ( 70°C )	
Non-recurrent surge voltage(U <sub>s</sub> )	1125V.DC	
Maximum peak current(I <sup>∧</sup> )	4.8kA	
Maximum surge current(I <sub>s</sub> )	14.4kA	
Filling material	Resin or Polyurethane, dry	
Failure quota	≤ 50fit	
Life expectancy	Reference life expectancy curve	
Reference standard	IEC 61071 ; AEC Q 200D-2010	
Weight	≈ 2.3kg	
Dimension	190mm×95mm×47mm	

Size chart

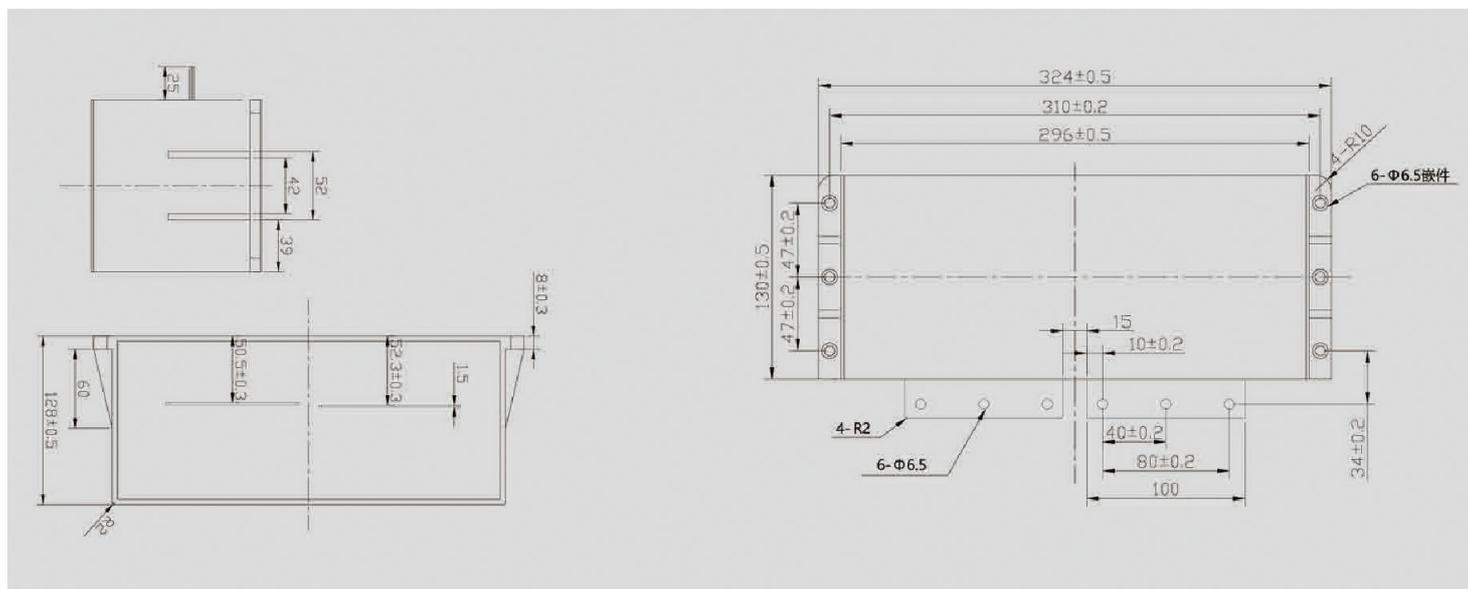


Technical data

Operating temperature range	-40°C ~ 105°C	
Storage temperature range	-40°C ~ 105°C	
(U <sub>N</sub> ) Rated voltage	450V.DC	
(C <sub>N</sub> ) Rated capacitance	1000µF	
Cap.tol	±5% (J)	
Withstand voltage	V <sub>t</sub> - t	1.5U <sub>N</sub> / 10s ( 20°C±5°C )
	V <sub>t</sub> - c	3000V.AC / 10s ( 50Hz , 20°C±5°C)
Dissipation factor	tgδ ≤ 0.001	f = 100Hz
	tgδ <sub>0</sub> ≤ 0.0002	
Insulation resistance	R <sub>s</sub> × C ≥ 10000s ( at 20°C 100V.DC 60s )	
ESR	≤ 0.3mΩ ( 10kHz )	
L <sub>s</sub>	≤ 20nH	
R <sub>th</sub>	1.8K/W	
Max. current I <sub>rms</sub>	140A ( 70°C )	
Non-recurrent surge voltage(U <sub>s</sub> )	675V.DC	
Maximum peak current(I <sub>p</sub> )	5kA	
Maximum surge current( I <sub>s</sub> )	15kA	
Failure quota	< 50fit	
Life expectancy	Reference life expectancy curve	
Reference standard	IEC61071 ; AEC Q200D - 2010	
Weight	≈ 2.3kg	
Dimension	275mm x 72mm x 70mm	

МКР61А0900Д188К\*\*

Size chart

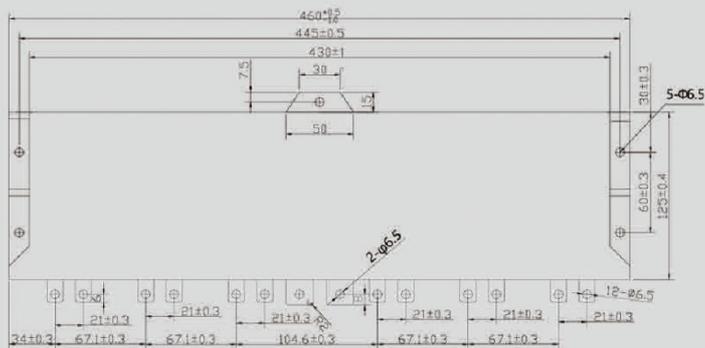


Technical data

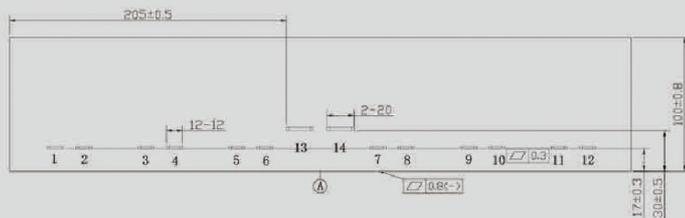
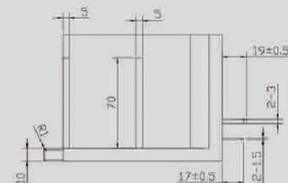
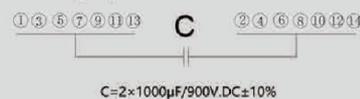
Operating temperature range	-40°C ~ 105°C	
Storage temperature range	-40°C ~ 105°C	
(U <sub>N</sub> ) Rated voltage	900V.DC	
(C <sub>N</sub> ) Rated capacitance	1800µF	
Cap.tol	±10% (K)	
Withstand voltage	Vt - t	1.5U <sub>N</sub> / 10s ( 20°C±5°C )
	Vt - c	3000V.AC /10s ( 50Hz , 20°C±5°C )
Dissipation factor	tgδ ≤ 0.001 f = 100Hz	
	tgδ <sub>0</sub> ≤ 0.0002	
Insulation resistance	R <sub>s</sub> ×C > 1000s ( at20°C 100V.DC 60s )	
ESR	≤0.2mΩ (10kHz)	
L <sub>s</sub>	≤20nH	
R <sub>th</sub>	1.2K/W	
Max. current I <sub>rms</sub>	160A ( 70°C )	
Non-recurrent surge voltage(U <sub>s</sub> )	1350V.DC	
Maximum peak current(I <sub>∧</sub> )	7.2kA	
Maximum surge current(I <sub>s</sub> )	14.4kA	
Failure quota	≤50fit	
Life expectancy	Reference life expectancy curve	
Reference standard	IEC61071 ; AEC Q200D - 2010	
Weight	≈6.7kg	
Dimension	324mm x 130mm x 128mm	

МКР61А0900D188К\*\*

Size chart

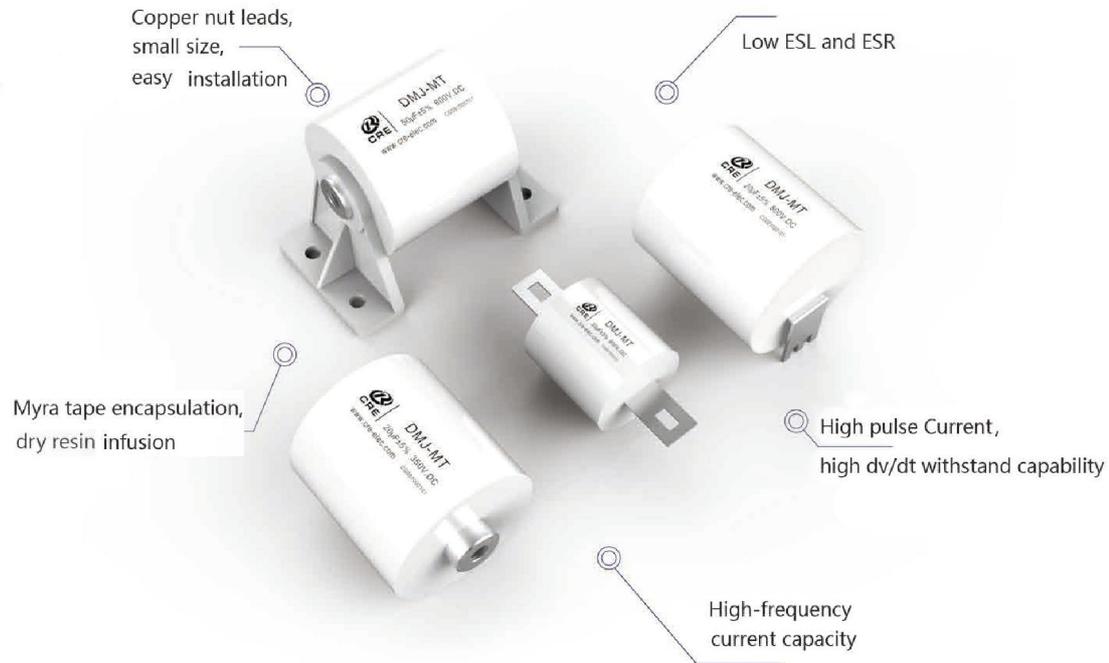


Internal wiring diagram:



Technical data

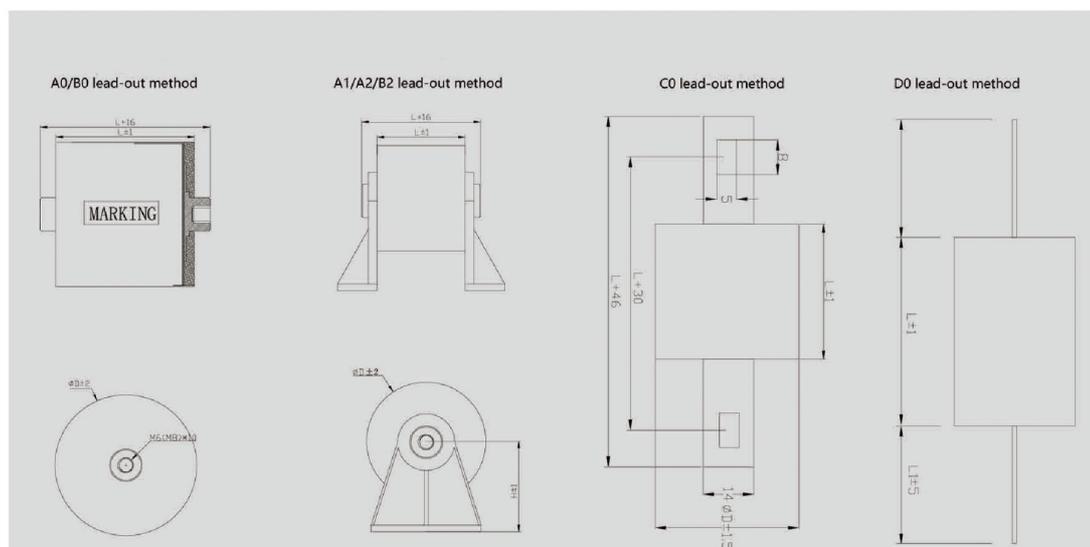
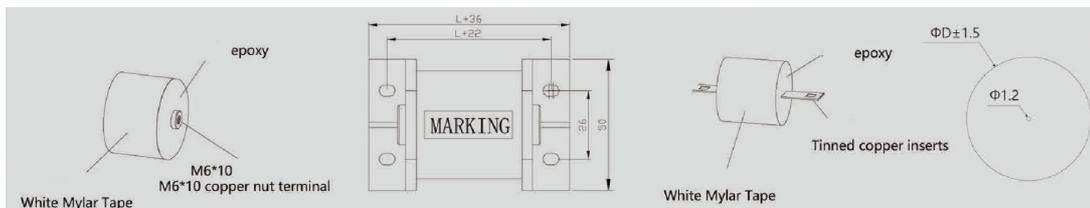
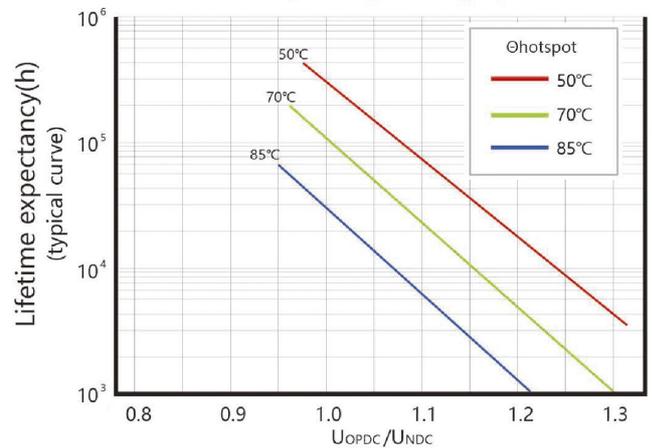
Operating temperature range	-40°C ~ 105°C
Storage temperature range	-40°C ~ 105°C
(U <sub>N</sub> ) Rated voltage	900V.DC
(C <sub>N</sub> ) Rated capacitance	2×1000µF
Cap.tol	±10% (K)
Withstand voltage	Vt - t 1.5U <sub>N</sub> / 10s ( 20°C±5°C )
	Vt - c 3000V.AC / 10s ( 50Hz , 20°C±5°C )
Dissipation factor	tgδ ≤ 0.001 f = 100Hz
	tgδ <sub>0</sub> ≤ 0.0002
Insulation resistance	R <sub>s</sub> × C ≥ 10000s ( at 20°C 100V.DC 60s )
ESR	≤ 0.3mΩ (10kHz)
L <sub>s</sub>	≤ 25nH
R <sub>th</sub>	0.5K/W
Max. current I <sub>rms</sub>	200A ( 70°C )
Non-recurrent surge voltage(U <sub>s</sub> )	1350V.DC
Maximum peak current(I <sub>̂</sub> )	10kA
Maximum surge current(I <sub>s</sub> )	20kA
Failure quota	≤ 50fit
Life expectancy	Reference life expectancy curve
Reference standard	IEC61071 ; AEC Q200D-2010
Weight	≈ 7.8kg
Dimension	460mm x 125mm x 100mm



**Application**

- Widely used in DC-Link circuit for high-frequency filtering and decoupling
- Widely used in power electronic circuits, for coupling purposes

**Life expectancy in the graph**



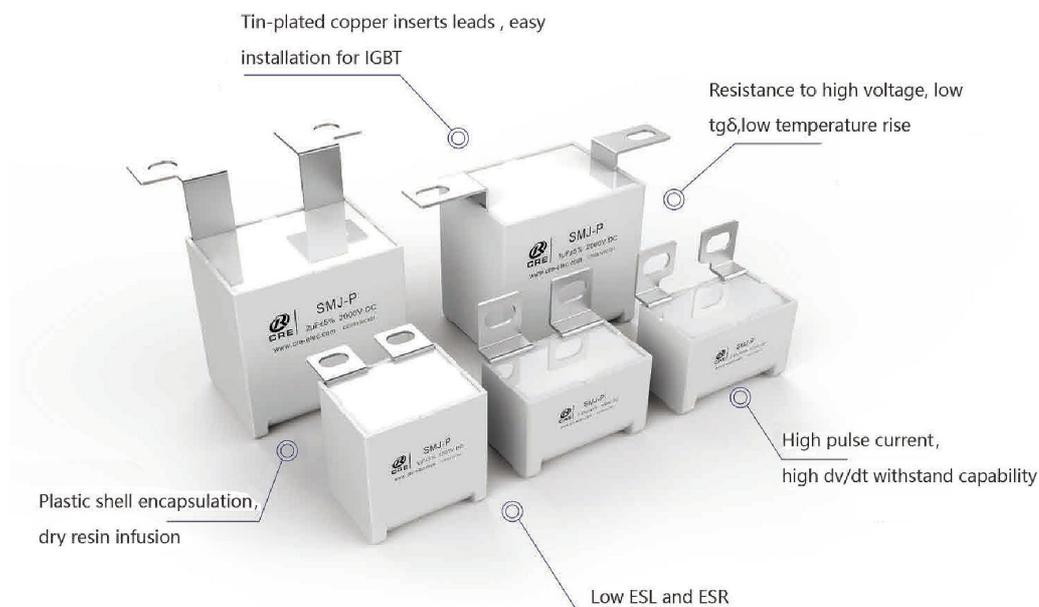
**Technical data**

Operating temperature range	Max.Operating temperature,Top,max : + 85°C Upper category temperature : + 70°C Lower category temperature : - 40°C
( C <sub>N</sub> ) / Capacitance range	10μF - 100μF
( U <sub>N</sub> ) / Rated voltage	350V.DC - 1100V.DC
Cap.tol	±5%(J): ±10%(K)
Withstand voltage	1.5U <sub>N</sub> DC / 60s
Over voltage	1.1U <sub>N</sub> ( 30% of on - load - dur. )
	1.15U <sub>N</sub> ( 30min / day )
	1.2U <sub>N</sub> ( 5min / day )
	1.3U <sub>N</sub> ( 1min / day )
	1.5U <sub>N</sub> ( 100ms every time,1000times during the lifetime )
Dissipation factor	tgδ≤0.0015 f = 1kHz
Insulation resistance	R <sub>s</sub> ×C ≥ 10000s ( at 200°C 100V.DC )
Withstand strike current	see attached table
I <sub>rms</sub>	see attached table
Reference standard	IEC61071

**Part number system**

Model			Capacitance			U <sub>N</sub> (DC)				Cap. tol	Length		Lead	Bottom mounted	Internal feature code	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
D	M	T	4	0	6	0	8	0	0	J	4	0	A	0	0	1
1	~	3	Model													
4	~	6	Nominal Capacity													
			e.g. 406 = 40×10 <sup>6</sup> pF = 40μF													
7	~	10	U <sub>N</sub> (DC)													
			e.g. 0800= 800V. DC													
		11	Capacitance Tolerance													
			±5%(J): ±10%(K)													
12	~	13	Length													
			e.g. 40= 40mm													
		14	Lead													
			B: M8x10 screw nut													
			C: Plated lead													
			D: (φ1.2) /Pin lead(φ1.2)													
		15	Bottom mounted type													
			0: Non-bracket													
			1: Class 1 bracket ( H=35mm)													
			2: Class 1 bracket ( H=41mm)													
16	~	17	Internal feature code													

C <sub>N</sub> (μF)	ΦD (mm)	L (mm)	ESR @1kHz (mΩ)	ESL (nH)	dv/dt (V/μS)	I <sub>p</sub> (A)	I <sub>rms</sub> @10kHz40°C (A)	Part number
<b>U<sub>N</sub> 350V.DC U<sub>s</sub> 525V U<sub>r</sub> 100V</b>								
20	38	40	3.3	25	60	1200	30	DMT2060350*40****
30	45	40	3.2	25	60	1800	40	DMT3060350*40****
30	38	50	3.2	25	50	1500	30	DMT3060350*50****
40	45	50	3	25	50	2000	35	DMT4060350*50****
50	49	50	3	25	50	2500	40	DMT5060350*50****
60	54	50	3	25	50	3000	45	DMT6060350*50****
70	58	50	3	25	50	3500	50	DM17060350*50****
80	55	60	3	25	40	3200	50	DMT8060350*60****
100	61	60	2.9	25	40	4000	55	DMT1070350*60****
<b>U<sub>N</sub> 700V.DC U<sub>s</sub> 1050V U<sub>r</sub> 200V</b>								
20	38	40	3.3	25	60	1200	30	DMT2060700*40****
30	45	40	3.2	25	60	1800	40	DMT3060700*40****
30	38	50	3.2	25	50	1500	30	DMT3060700*50****
40	45	50	3	25	50	2000	35	DMT4060700*50****
50	49	50	3	25	50	2500	40	DMT5060700*50****
60	54	50	3	25	50	3000	45	DMT6060700*50****
70	58	50	3	25	50	3500	50	DMT7060700*50****
80	55	60	3	25	40	3200	50	DMT8060700*60****
100	61	60	2.9	25	40	4000	55	DMT1070700*60****
<b>U<sub>N</sub> 800V.DC U<sub>s</sub> 1200V U<sub>r</sub> 250V</b>								
20	44	40	2.9	25	60	1200	40	DMT2060800*40****
30	54	40	2.7	25	80	2400	45	DMT3060800*40****
30	45	50	2.6	25	60	1800	40	DMT3060800*50****
30	40	60	2.8	25	50	1500	35	DMT3060800*60****
40	62	40	2.5	25	80	3200	55	DMT4060800*40****
40	52	50	2.7	25	60	2400	45	DMT4060800*50****
40	46	60	3.2	25	60	2400	40	DMT4060800*60****
50	69	40	2.1	25	80	4000	60	DMT5060800*40****
50	59	50	2.4	25	60	3000	50	DMT5060800*50****
50	52	60	2.5	25	60	3000	45	DMT5060800*60****
60	64	50	2.3	25	60	3600	55	DMT6060800*50****
60	56	60	2.4	25	60	3600	50	DMT6060800*60****
70	70	50	2	25	60	4200	60	DMT7060800*50****
70	62	60	2.2	25	60	4200	55	DMT7060800*60****
80	73	50	2.1	25	60	4800	60	DMT8060800*50****
80	65	60	2.5	25	60	4800	60	DMT8060800*60****
100	82	50	1.8	25	60	6000	75	DMT1070800*50****
100	72	60	2.2	25	50	5000	65	DMT1070800*60****
<b>U<sub>N</sub> 1100V.DC U<sub>s</sub> 1650V U<sub>r</sub> 300V</b>								
10	42	40	3.4	25	60	600	35	DMT1061100*40****
20	50	50	3.1	25	60	1200	40	DMT2061100*50****
20	65	40	3	25	60	1200	60	DMT2061100*40****
30	60	50	3.1	25	60	1800	55	DMT3061100*50****
40	69	50	2.7	25	60	2400	60	DMT4061100*50****
40	61	60	2.9	25	50	2000	55	DMT4061100*60****
50	68	60	2.6	25	50	2500	60	DMT5061100*60****
60	75	60	2.2	25	50	3000	70	DMT6061100*60****
70	81	60	1.9	25	50	3500	70	DM17061100*60****
80	86	60	1.6	25	50	4000	75	DMT8061100*60****

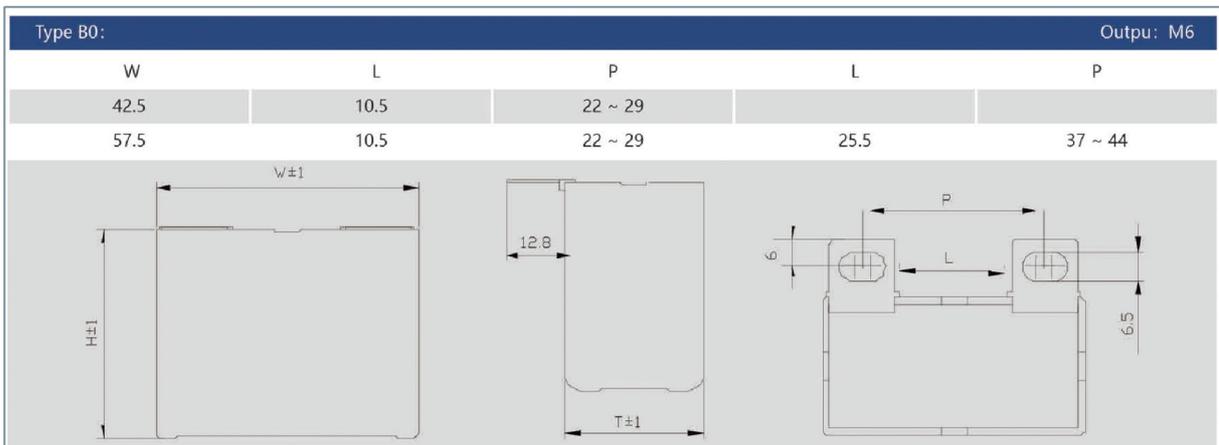
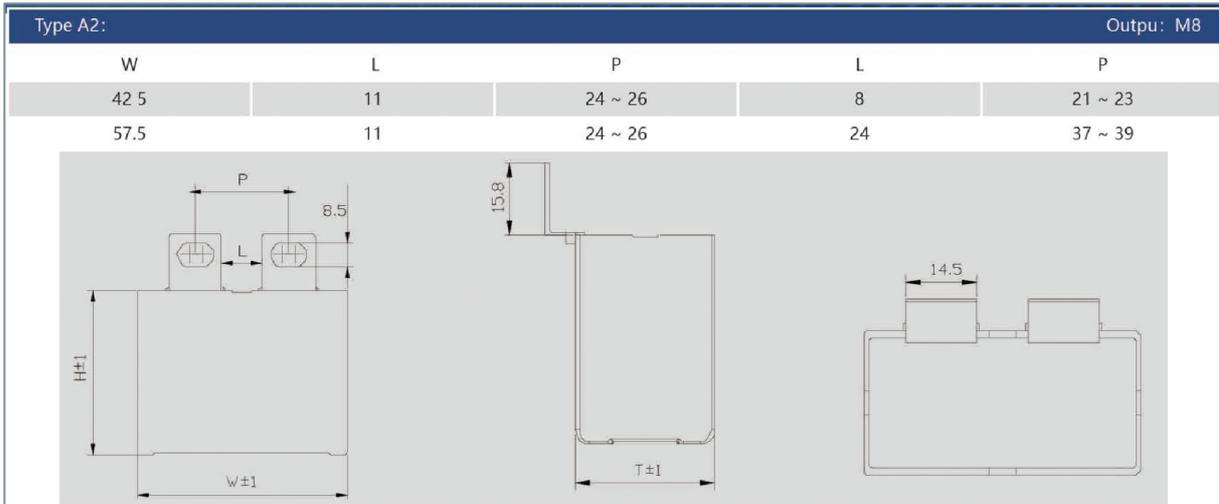
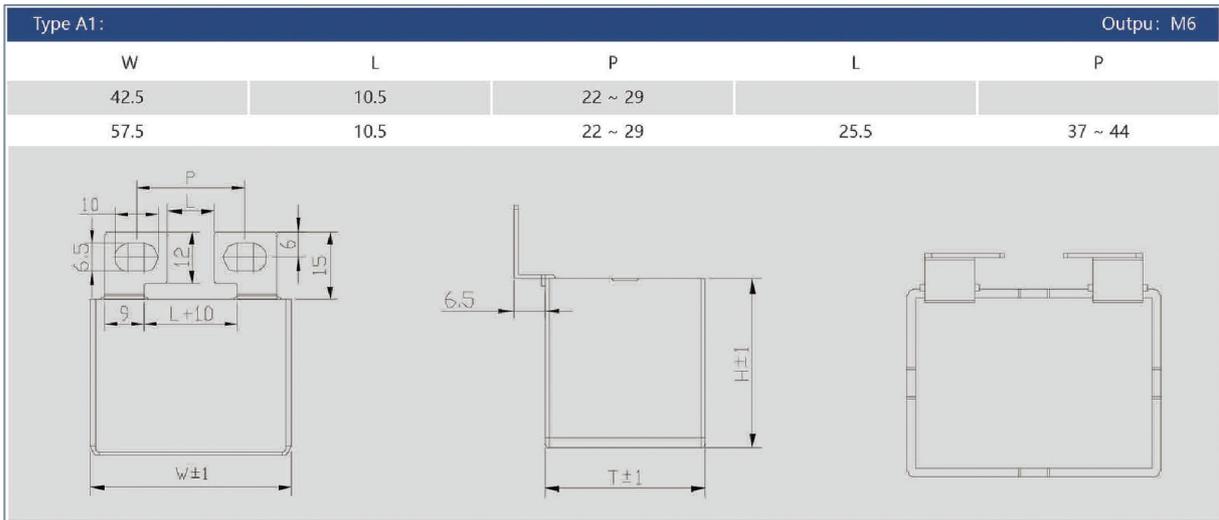
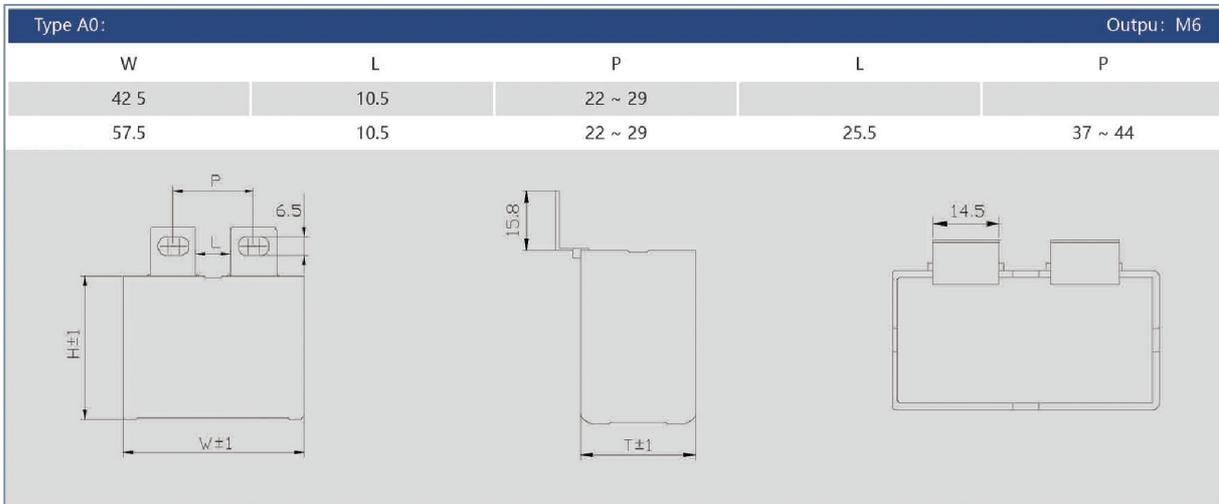


### Technical data

Operating temperature range	Max. Operating temperature. Top, max : + 105°C
	Upper category temperature: +85°C
	Lower category temperature: - 40°C
(U <sub>N</sub> ) Rated voltage	0.1μF~5.6μF
(C <sub>N</sub> ) Rated capacitance	700V.DC ~ 3000V.DC
Cap. tol	±5% (J) ; ±10% (K)
Withstand voltage	1.5U <sub>NDC</sub> /10s
Dissipation factor	tgδ<0.0005 C<1μF f=10kHz
	tgδ< 0.001 C>1μF f=10kHz
Insulation resistance	C ≤0.33μF R <sub>s</sub> ≥30000 MΩ ( at20°C 100V.DC 60s )
	C > 0.33μF R <sub>s</sub> ×C ≥10000s ( at20°C 100V.DC 60s )
Withstand strike current	See the specification sheet
Flame retardation	UL94V -0
Life expectancy	100000h ( U <sub>N</sub> ; θ <sub>hotspot</sub> ≤85°C )
Reference standard	IEC61071 ; GB / T17702

### Part number system

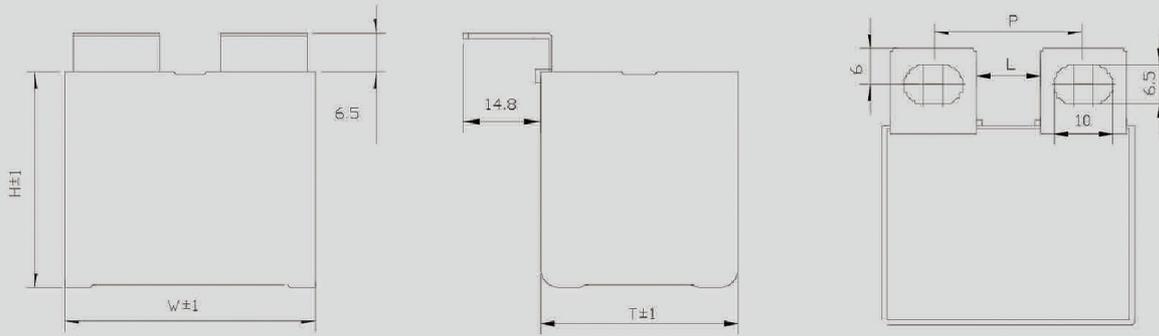
Model			Capacitance			U <sub>N</sub> (DC)				Cap. tol	Lead			L		Internal feature code	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
S	~	P	1	0	5	1	2	0	0	J	A	1	1	0	5	0	1
1 ~ 3			Model														
4 ~ 6			Nominal Capacity e.g. 105= 10×10 <sup>5</sup> pF= 1μF														
7 ~ 10			U <sub>N</sub> (DC) e.g. 1200= 1200VDC														
			11 Capacitance Tolerance ±5% (J) ; ±10% (K)														
12 ~ 13			Lead A0; A1; A2; A3 B0; B1; B2 C0 (See the specification sheet)														
14 ~ 16			Distance between mounting holes L e.g. 105= 10.5mm; 200= 20.0mm														
17 ~ 18			Internal feature code														



Type B2:

Output: M8

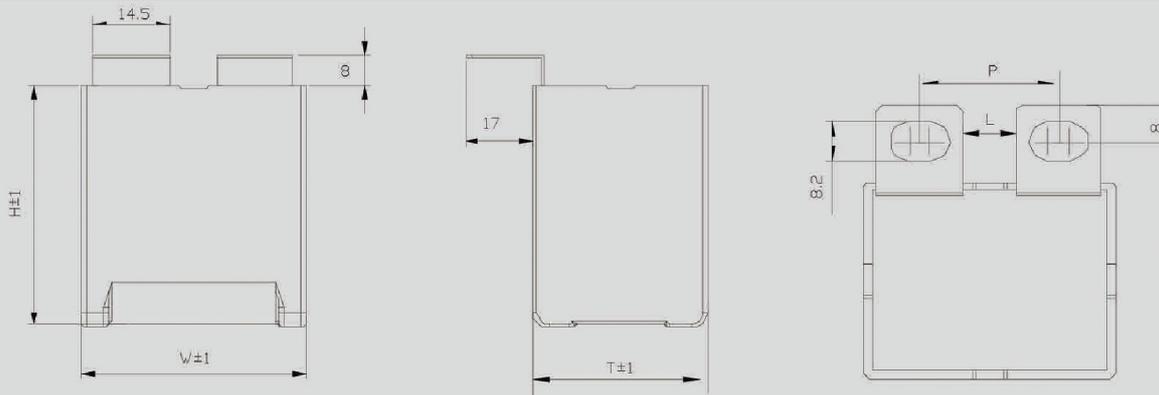
W	L	P	L	P
42.5	11	24 ~ 26	8	21 ~ 23
57.5	11	24 ~ 26	24	37 ~ 39



Type B0:

Output: M6

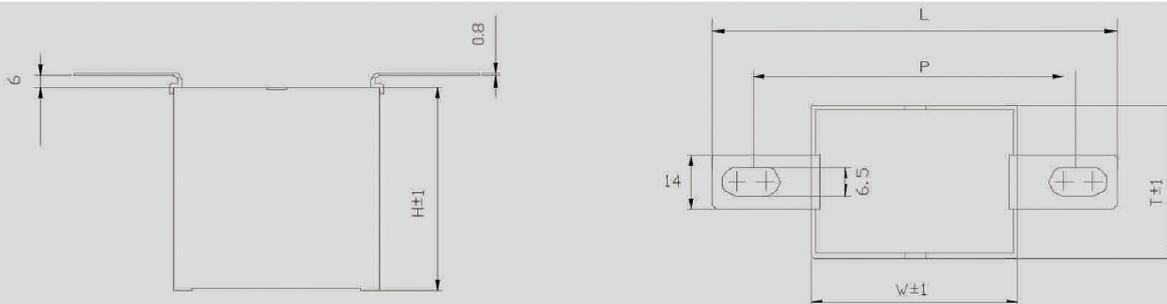
W	L	P	L	P
42.5	10.5	22 ~ 29		
57.5	10.5	22 ~ 29	25.5	37 ~ 44



Type B0:

Output: M6

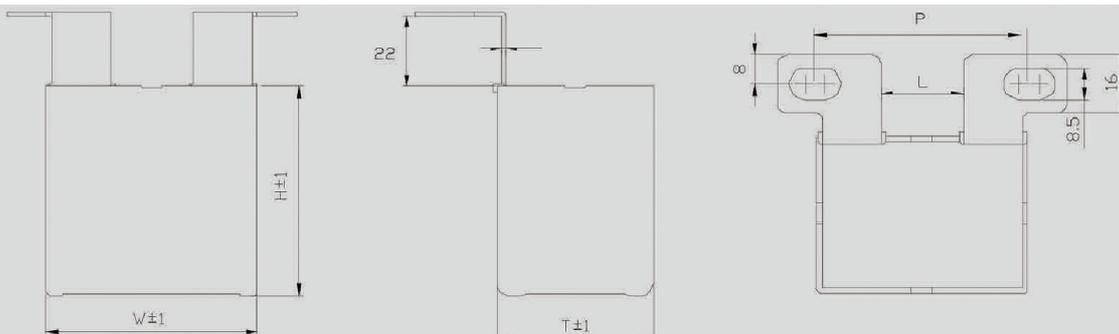
W	L	P	L	P
42.5	10.5	22 ~ 29		
57.5	10.5	22 ~ 29	25.5	37 ~ 44



Type A2:

Output: M8

W	L	P	L	P
42.5	11	24 ~ 26	8	21 ~ 23
57.5	11	24 ~ 26	24	37 ~ 39



C <sub>N</sub> (μF)	尺寸/Dimension (mm)			ESR @100kHz (mΩ)	ESL (nH)	dv/dt (V/μS)	I <sub>p</sub> (A)	I <sub>rms</sub> @100kHz85°C (A)	Part number
	W	T	H						
<b>U<sub>N</sub> 700V.DC U<sub>rms</sub> 400V.AC U<sub>s</sub> 1050V</b>									
0.47	42.5	24.5	27.5	12	25	500	235	8	S-P4740700*****
0.68	42.5	24.5	27.5	10	25	480	326.4	10	S-P6840700*****
1	42.5	24.5	27.5	8	24	450	450	12	S-P1050700*****
1.5	42.5	33.5	35.5	7	25	430	645	5	S-P1550700*****
2	42.5	33	35.5	6	24	420	840	15	S-P2050700*****
2.5	42.5	33	45	6	23	400	1000	18	S-P2550700*****
3	42.5	33	45	5.5	22	380	1140	20	S-P3050700*****
3	57.5	30	45	5	26	350	1050	22	S-P3050700*****
3.5	42.5	33	45	5	23	350	1225	25	S-P3550700*****
3.5	57.5	30	45	6	25	300	1050	22	S-P3550700*****
4.7	57.5	35	50	5	28	280	1316	25	S-P4750700*****
5.6	57.5	38	54	4	30	250	1400	25	S-P5650700*****
6	57.5	38	54	3.5	33	230	1380	28	S-P6050700*****
6.8	57.5	42.5	56	3.2	32	220	1496	32	S-P6850700*****
8	57.5	42.5	56	2.8	30	200	1600	33	S-P8050700*****
<b>U<sub>N</sub> 1000V.DC U<sub>rms</sub> 500V.AC U<sub>s</sub> 1500V</b>									
0.47	42.5	24.5	27.5	11	25	1000	470	10	S-P4741000*****
0.68	42.5	24.5	27.5	8	25	800	544	12	S-P6841000*****
1	42.5	33.5	35.5	6	24	800	800	15	S-P1051000*****
1.5	42.5	33	45	6	24	700	1050	15	S-P1551000*****
2	42.5	33	45	5	22	700	1400	20	S-P2051000*****
2.5	57.5	30	45	5	30	600	1500	22	S-P2551000*****
3	57.5	35	50	4	30	600	1800	25	S-P3051000*****
3.3	57.5	35	50	3.5	28	550	1815	25	S-P3351000*****
3.5	57.5	38	54	3.5	28	500	1750	25	S-P3551000*****
4	57.5	38	54	3.2	26	500	2000	28	S-P4051000*****
4.7	57.5	42.5	56	3	25	420	1974	30	S-P4751000*****
5.6	57.5	42.5	56	2.8	24	400	2240	32	S-P5651000*****
<b>U<sub>N</sub> 1200V.DC U<sub>rms</sub> 550V.AC U<sub>s</sub> 1800V</b>									
0.47	42.5	24.5	27.5	11	24	1200	564	10	S-P4741200*****
0.68	42.5	33.5	35.5	7	23	1100	748	12	S-P6841200*****
1	42.5	33.5	35.5	6	22	800	800	14	S-P1051200*****
1.5	42.5	33	45	5	20	800	1200	15	S-P1551200*****
2	57.5	30	45	4	30	750	1500	20	S-P2051200*****
2.5	57.5	35	50	4	28	700	1750	25	S-P2551200*****
3	57.5	35	50	4	27	600	1800	25	S-P3051200*****
3.3	57.5	38	54	4	27	550	1815	28	S-P3351200*****
3.5	57.5	38	54	3.5	25	500	1750	28	S-P3551200*****
4	57.5	42.5	56	3.5	25	450	1800	30	S-P4051200*****
4.7	57.5	42.5	56	3.2	23	420	1974	32	S-P4751200*****
<b>U<sub>N</sub> 1700V.DC U<sub>rms</sub> 575V.AC U<sub>s</sub> 2250V</b>									
0.33	42.5	24.5	27.5	12	25	1300	429	9	S-P3341700*****
0.47	42.5	24.5	27.5	10	24	1300	611	10	S-P4741700*****
0.68	42.5	33.5	35.5	8	23	1300	884	12	S-P6841700*****
1	42.5	33	45	7	22	1200	1200	15	S-P1051700*****
1.5	42.5	33	45	6	22	1200	1800	18	S-P1551700*****
1.5	57.5	30	45	5	31	1200	1800	20	S-P1551700*****
2	57.5	30	45	5	30	1100	2200	22	S-P2051700*****
2.5	57.5	35	50	4	28	1100	2750	25	S-P2551700*****
3	57.5	38	54	4	27	700	2100	25	S-P3051700*****
3.3	57.5	38	54	3.8	26	600	1980	28	S-P3351700*****
3.5	57.5	42.5	56	3.5	25	500	1750	30	S-P3551700*****
4	57.5	42.5	56	3.2	25	450	1800	32	S-P4051700*****
<b>U<sub>N</sub> 2000V.DC U<sub>rms</sub> 700V.AC U<sub>s</sub> 3000V</b>									
0.22	42.5	24.5	27.5	15	25	1500	330	10	S-P2242000*****
0.33	42.5	33.5	35.5	12	24	1500	495	12	S-P3342000*****
0.47	42.5	33.5	35.5	11	23	1400	658	15	S-P4742000*****
0.68	42.5	33	45	8	22	1200	816	18	S-P6842000*****
0.68	57.5	30	45	7	30	1100	748	20	S-P6842000*****
0.82	42.5	33	45	7	28	1200	984	22	S-P8242000*****
1	57.5	30	45	6	28	1100	1100	25	S-P1052000*****
1.5	57.5	35	50	5	25	1000	1500	28	S-P1552000*****
2	57.5	38	54	5	24	800	1600	28	S-P2052000*****
2.2	57.5	42.5	56	4	23	700	1540	32	S-P2252000*****
<b>U<sub>N</sub> 3000V.DC U<sub>rms</sub> 750V.AC U<sub>s</sub> 4500V</b>									
0.15	42.5	33	45	18	28	2500	375	25	S-P1543000*****
0.22	42.5	33	45	15	27	2200	484	28	S-P2243000*****
0.22	57.5	35	50	15	25	2000	330	20	S-P2243000*****
0.33	57.5	35	50	12	24	1800	495	20	S-P3343000*****
0.47	57.5	38	54	11	23	1600	752	22	S-P4743000*****
0.68	57.5	42.5	56	8	22	1500	1020	28	S-P6843000*****

Products using non-sensitive roll technology,  
high vacuum impregnation process

Solid medium: polypropylene film (PP)

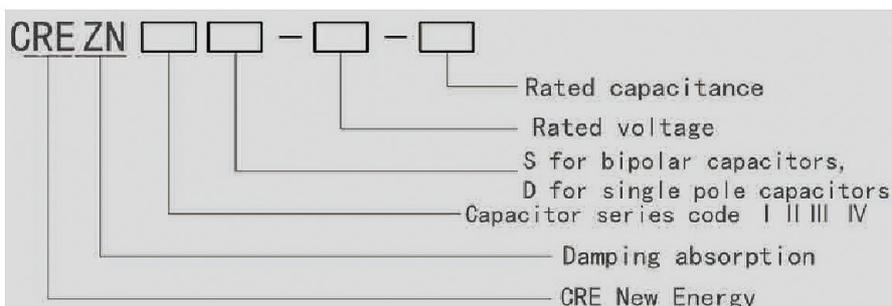
Liquid medium filler: benzyltoluene  
or PEPE, PCB free

Frosted and oxidised cylindrical  
aluminium case

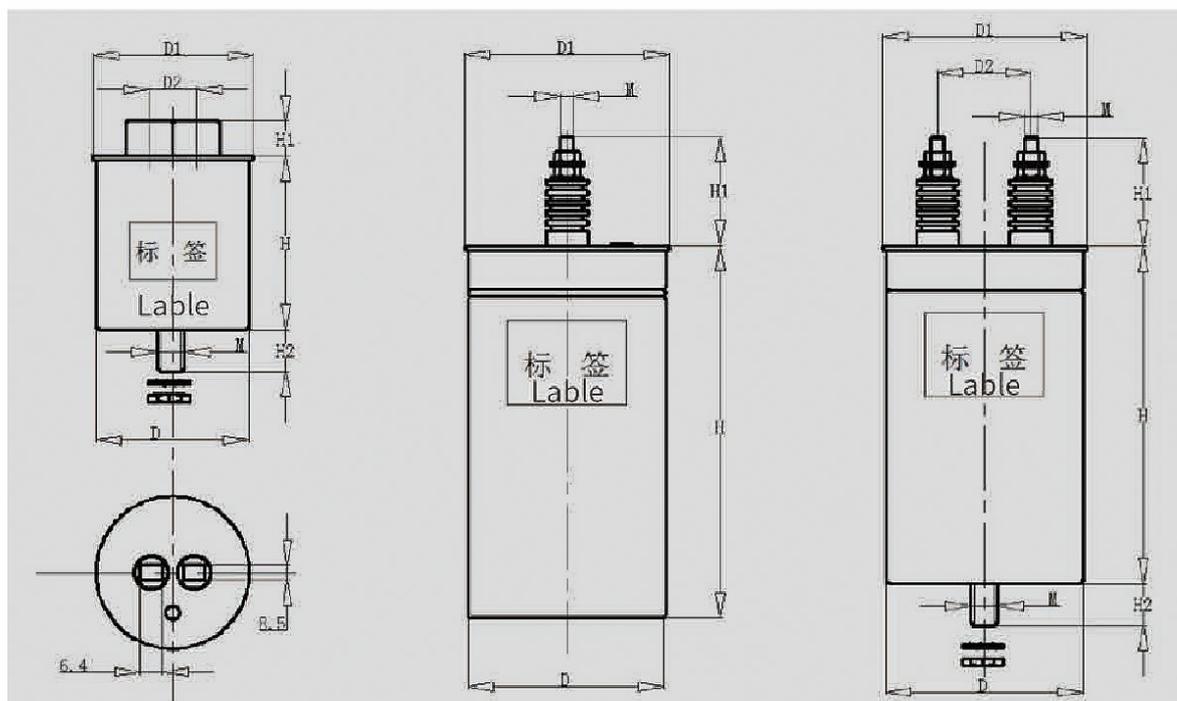


## Application

- Mainly used to limit the rise rate of excessive voltage in circuits to protect switching and protection of semiconductors in power electronics.
- filtering and energy storage.
- The main application areas are rectifiers, SVCs, locomotive power supplies, etc.



## The contour map



$C_N$ ( $\mu\text{F}$ )	$I_{\text{max}}$ ( $A_{\text{rms}}$ )	$I^{\wedge}$ ( $\text{kA}$ )	$I_s$ ( $\text{kA}$ )	$D$ ( $\text{mm}$ )	$H$ ( $\text{mm}$ )	Bottom bolts	Model
<b><math>U_N</math> 1000V AC <math>U_{\text{NDC}}</math> 1700V DC <math>U_s</math> 2500V <math>U_{\text{BB}}</math> 1500V AC <math>U_{\text{BG}}</math> 2400V AC</b>							
0.1 $\mu\text{F}$	10	0.2	1.2	50	55	M8	CREZN-1kVAC-0.1 $\mu\text{F}$
0.22 $\mu\text{F}$	10	0.2	1.6	50	55	M8	CREZN-1kVAC-0.22 $\mu\text{F}$
0.33 $\mu\text{F}$	10	0.2	1.6	50	55	M8	CREZN-1kVAC-0.33 $\mu\text{F}$
0.47 $\mu\text{F}$	10	0.2	1.6	50	55	M8	CREZN-1kVAC-0.47 $\mu\text{F}$
0.5 $\mu\text{F}$	10	0.2	1.6	50	55	M8	CREZN-1kVAC-0.5 $\mu\text{F}$
1 $\mu\text{F}$	18	0.2	1.6	50	75	M8	CREZN-1kVAC-1 $\mu\text{F}$
2 $\mu\text{F}$	18	0.3	2	50	75	M8	CREZN-1kVAC-2 $\mu\text{F}$
3 $\mu\text{F}$	18	0.5	2.8	60	90	M12	CREZN-51kVAC-3 $\mu\text{F}$
4 $\mu\text{F}$	18	0.7	3	60	122	M12	CREZN-1kVAC-4 $\mu\text{F}$
6 $\mu\text{F}$	18	0.9	3.5	60	152	M12	CREZN-1kVAC-6 $\mu\text{F}$
10 $\mu\text{F}$	18	1.2	4	76	152	M12	CREZNIIS-500VAC/1kVAC-10 $\mu\text{F}$
<b><math>U_N</math> 1600V AC <math>U_{\text{NDC}}</math> 2500V DC <math>U_s</math> 3800V <math>U_{\text{BB}}</math> 2400V AC <math>U_{\text{BG}}</math> 3300V AC</b>							
0.1 $\mu\text{F}$	10	0.2	1.2	50	55	M8	CREZN-1.6kVAC-0.1 $\mu\text{F}$
0.22 $\mu\text{F}$	10	0.2	1.6	50	55	M8	CREZN-1.6kVAC-0.22 $\mu\text{F}$
0.33 $\mu\text{F}$	10	0.2	1.6	50	75	M12	CREZN-1.6kVAC-0.33 $\mu\text{F}$
0.47 $\mu\text{F}$	18	0.2	1.6	50	75	M12	CREZN-1.6kVAC-0.47 $\mu\text{F}$
0.5 $\mu\text{F}$	18	0.2	1.6	50	75	M12	CREZN-1.6kVAC-0.5 $\mu\text{F}$
1 $\mu\text{F}$	18	0.2	1.6	60	90	M8	CREZN-1.6kVAC-1 $\mu\text{F}$
2 $\mu\text{F}$	18	0.3	2	60	122	M12	CREZN-1.6kVAC-2 $\mu\text{F}$
3 $\mu\text{F}$	18	0.5	2.8	60	152	M12	CREZNIIS-1.6kVAC-3 $\mu\text{F}$
4 $\mu\text{F}$	18	0.7	3	76	122	M12	CREZNIIS-1.6kVAC-4 $\mu\text{F}$
6 $\mu\text{F}$	18	0.9	3.5	76	152	M12	CREZNIIS-1.6kVAC-6 $\mu\text{F}$
10 $\mu\text{F}$	18	1.2	4	96	152	M16	CREZNIIS-1.6kVAC-10 $\mu\text{F}$
<b><math>U_N</math> 2000V AC <math>U_{\text{NDC}}</math> 3000V DC <math>U_s</math> 4500V <math>U_{\text{BB}}</math> 3000V AC <math>U_{\text{BG}}</math> 3800V AC</b>							
0.1 $\mu\text{F}$	10	0.2	1.2	50	55	M8	CREZN-2kVAC-0.1 $\mu\text{F}$
0.22 $\mu\text{F}$	10	0.2	1.6	50	55	M8	CREZN-2kVAC-0.22 $\mu\text{F}$
0.33 $\mu\text{F}$	10	0.2	1.6	50	75	M8	CREZN-2kVAC-0.33 $\mu\text{F}$
0.47 $\mu\text{F}$	18	0.2	1.6	50	75	M12	CREZN-2kVAC-0.47 $\mu\text{F}$
0.5 $\mu\text{F}$	18	0.2	1.6	50	75	M12	CREZN-2kVAC-0.5 $\mu\text{F}$
1 $\mu\text{F}$	18	0.2	1.6	60	90	M12	CREZN-2kVAC-1 $\mu\text{F}$
2 $\mu\text{F}$	18	0.3	2	76	122	M12	CREZNIIS-2kVAC-2 $\mu\text{F}$
3 $\mu\text{F}$	18	0.5	2.8	76	122	M12	CREZNIIS-2kVAC-3 $\mu\text{F}$
4 $\mu\text{F}$	18	0.7	3	76	152	M12	CREZNIIS-2kVAC-4 $\mu\text{F}$
6 $\mu\text{F}$	18	0.9	3.5	86	152	M12	CREZNIIS-2kVAC-6 $\mu\text{F}$
10 $\mu\text{F}$	18	1.2	4	106	152	M16	CREZNIIS-2kVAC-10 $\mu\text{F}$
<b><math>U_N</math> 2500V AC <math>U_{\text{NDC}}</math> 4000V DC <math>U_s</math> 6000V <math>U_{\text{BB}}</math> 3750V AC <math>U_{\text{BG}}</math> 4500V AC</b>							
0.1 $\mu\text{F}$	10	0.2	1.4	60	60	M12	CREZN-2.5kVAC-0.1 $\mu\text{F}$
0.22 $\mu\text{F}$	10	0.2	1.8	60	60	M12	CREZN-2.5kVAC-0.22 $\mu\text{F}$
0.33 $\mu\text{F}$	10	0.2	1.8	60	90	M12	CREZN-2.5kVAC-0.33 $\mu\text{F}$
0.47 $\mu\text{F}$	18	0.2	1.8	60	90	M12	CREZN-2.5kVAC-0.47 $\mu\text{F}$
0.5 $\mu\text{F}$	18	0.2	1.8	60	90	M12	CREZN-2.5kVAC-0.5 $\mu\text{F}$
1 $\mu\text{F}$	18	0.2	1.8	60	122	M12	CREZNIIS-2.5kVAC-1 $\mu\text{F}$
2 $\mu\text{F}$	18	0.4	2.2	76	122	M12	CREZNIIS-2.5kVAC-2 $\mu\text{F}$
3 $\mu\text{F}$	18	0.6	3	76	152	M12	CREZNIIS-2.5kVAC-3 $\mu\text{F}$
4 $\mu\text{F}$	18	0.8	3.5	86	152	M16	CREZNIIS-2.5kVAC-4 $\mu\text{F}$
6 $\mu\text{F}$	18	1	4	106	152	M16	CREZNIIS-2.5kVAC-6 $\mu\text{F}$
10 $\mu\text{F}$	18	1.5	4.5	116	182	M16	CREZNIIS-2.5kVAC-10 $\mu\text{F}$

U<sub>N</sub> 3000V AC U<sub>NDC</sub> 4500V DC U<sub>s</sub> 6750V U<sub>BB</sub> 4500V AC U<sub>BG</sub> 5200V AC

0.1μF	18	0.4	1.6	60	60	M12	CREZNIIS-3kVAC-0.1μF
0.22μF	18	0.6	2	60	60	M12	CREZNIIS-3kVAC-0.22μF
0.33μF	18	0.6	2	60	60	M12	CREZNIIS-3kVAC-0.33μF
0.47μF	18	0.6	2	60	90	M12	CREZNIIS-3kVAC-0.47μF
0.5μF	18	0.6	2	60	122	M12	CREZNIIS-3kVAC-0.5μF
1μF	18	0.7	2	76	122	M12	CREZNIIS-3kVAC-1μF
2μF	18	1.5	4	76	152	M12	CREZNIIS-3kVAC-2μF
3μF	18	1.8	6	96	152	M16	CREZNIIS-3kVAC-3μF
4μF	18	3.5	8	106	152	M16	CREZNIIS-3kVAC-4μF
6μF	18	4	12	106	182	M16	CREZNIIS-3kVAC-6μF
10μF	18	5	14	116	272	M16	CREZNIIS-3kVAC-10μF

U<sub>N</sub> 4000V AC U<sub>NDC</sub> 5000V DC U<sub>s</sub> 7500V U<sub>BB</sub> 6000V AC U<sub>BG</sub> 6600V AC

0.33μF	18	0.7	2.2	76	122	M12	CREZNIIS-4kVAC-0.33μF
0.47μF	18	0.7	2.2	76	122	M12	CREZNIIS-4kVAC-0.47μF
0.5μF	18	0.7	2.2	76	122	M12	CREZNIIS-4kVAC-0.5μF
1μF	18	0.8	2.4	86	152	M12	CREZNIIS-4kVAC-1μF
2μF	18	1.7	5	106	152	M16	CREZNIIS-4kVAC-2μF
3μF	18	2	7	106	182	M12	CREZNIIS-4kVAC-3μF
4μF	18	3.7	11	106	272	M16	CREZNIIS-4kVAC-4μF

U<sub>N</sub> 5000V AC U<sub>NDC</sub> 8000V DC U<sub>s</sub> 12000V U<sub>BB</sub> 7500V AC

0.1μF	18	1	2	76	122	M12	CREZNIID-5kVAC-0.1μF
0.22μF	18	1.2	2.5	76	122	M12	CREZNIID-5kVAC-0.22μF
0.33μF	18	1.2	2.5	76	152	M12	CREZNIID-5kVAC-0.33μF
0.47μF	18	1.2	2.5	76	152	M12	CREZNIID-5kVAC-0.47μF
0.5μF	18	1.2	2.5	76	152	M12	CREZNIID-5kVAC-0.5μF
1μF	18	1.5	4	106	152	M12	CREZNIID-5kVAC-1μF
2μF	18	2	6	116	182	M16	CREZNIID-5kVAC-2μ F
3μF	18	2.4	9	116	272	M12	CREZNIID-5kVAC-3μ F

U<sub>N</sub> 6000V AC U<sub>NDC</sub> 9000V DC U<sub>s</sub> 13500V U<sub>BB</sub> 8000V AC

0.1μF	18	1.2	2.5	76	122	M12	CREZNIID-6kVAC-0.1μF
0.22μF	18	1.5	3	76	152	M12	CREZNIID-6kVAC-0.22μF
0.33μF	18	1.5	3	76	152	M12	CREZNIID-6kVAC-0.33μF
0.47μF	18	1.5	3	76	152	M12	CREZNIID-6kVAC-0.47μF
0.5μF	18	1.5	3	86	152	M12	CREZNIID-6kVAC-0.5μF
1μF	18	2	6	106	152	M12	CREZNIID-6kVAC-1μF
2μF	18	3	6	116	202	M16	CREZNIID-6kVAC-2μF

U<sub>N</sub> 7000V AC U<sub>NDC</sub> 10000V DC U<sub>s</sub> 15000V U<sub>BB</sub> 10500V AC

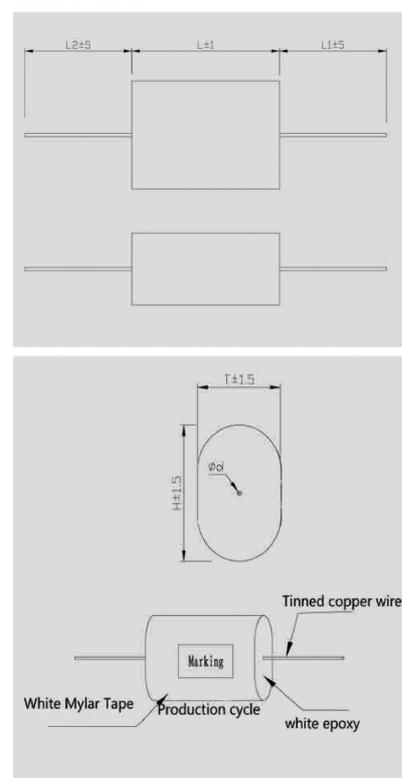
0.1μF	18	1.8	4	76	122	M12	CREZNIID-7kVAC-0.1μF
0.22μF	18	2.2	6	76	152	M12	CREZNIID-7kVAC-0.22μF
0.33μF	18	2.2	6	86	152	M12	CREZNIID-7kVAC-0.33μF
0.47μF	18	2.2	6	86	152	M12	CREZNIID-7kVAC-0.47μF
0.5μF	18	2.2	6	86	152	M12	CREZNIID-7kVAC-0.5μF
1μF	18	4	12	106	182	M12	CREZNIID-7kVAC-1μF
2μF	18	6	12	116	272	M16	CREZNIID-7kVAC-2μF



## Technical data

Operating temperature range	Max.Operating temperature.,Top,max : + 85°C
	Upper category temperature: +85°C
	Lower category temperature : - 40°C
( C <sub>N</sub> ) / Capacitance range	0.1µF~ 5.6µF
( U <sub>N</sub> ) / Rated voltage	630V.DC ~ 2000V.DC
Cap.tol	±5%(J); ±10%(K)
Withstand voltage	1.5U <sub>NDC</sub> / 10s
Dissipation factor	tgδ≤0.0005 C<1µF f=10kHz
	tgδ≤0.001 C≥1µF f=10kHz
Insulation resistance	C ≤ 0.33µF R <sub>s</sub> ≥30000 MΩ ( at 20°C 100V.DC 60s )
	C>0.33µF R <sub>s</sub> ×C≥10000s ( at 20°C 100V.DC 60s )
Withstand strike current	See the specification sheet
Life expectancy	100000h (U <sub>N</sub> ; θ <sub>hotspot</sub> ≤ 85°C)
Reference standard	IEC61071;GB/T17702

## The contour map



## Part number system

Model			Capacitance				U <sub>N</sub> (DC)				Cap. tol	Length	Lead	Internal feature code	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
S	T	E	4	7	4	1	2	0	0	J	4	4	A	0	1
1 ~ 3 Model															
4 ~ 6 Nominal Capacity			e.g. 474=47×10 <sup>4</sup> pF=0.47µF												
7 ~ 10 U <sub>N</sub> (DC)			e.g. 1200=1200VDC												
11 Capacitance Tolerance			±5% (J) ; ±10% (K)												
12 ~ 13 Length			e.g. 44=44mm												
14 Lead			A: Φ0.8×30 B: Φ1.0×42 C: Φ12×42												
15 ~ 16 Internal feature code															

C <sub>N</sub> (μF)	L (mm)	T (mm)	H (mm)	φD (mm)	ESR @100kHz (mΩ)	ESL (nH)	dv/dt (V/μS)	I <sub>p</sub> (A)	I <sub>rms</sub> @25°C 100kHz (A)	Part number
<b>U<sub>N</sub> 630V.DC Urms400V.AC U<sub>s</sub> 945V</b>										
0.22	32	9.5	17.5	0.8	16	23	300	66	5.3	STE2240630*32A**
0.33	32	12	20	1	13	22	200	66	6.5	STE3340630*32B**
0.47	32	14.5	22.5	1	11	21	220	103.4	8.3	STE4740630*32B**
0.68	32	18	26	1	10	20	180	122.4	9.5	STE6840630*32B**
1	37	11	19	1	8	28	150	150	7.6	STE1050630^37B**
1.5	37	13.5	21.5	1	7	27	150	225	9.5	STE1550630^37B**
2	37	16	24	1.2	6	24	130	260	10.2	STE2050630*37C**
2.5	37	18	26	1.2	5.5	25	120	300	10.5	STE2550630*37C**
3	37	20	28	1.2	5	30	110	330	10.8	STE3050630*37C**
3.3	37	21	29	1.2	4.5	30	110	363	11.2	STE3350630*37C**
4	57	27	36.5	1.2	4.2	32	220	880	12.8	STE4050630*57C**
4.7	57	28	40.5	1.2	3.8	32	200	940	13.8	STE4050630*57C**
5.6	57	31	33.5	1.2	3.5	32	185	1036	13.5	STE5650630*57C**
6.8	37	29	41.5	1.2	2.5	28	100	680	13.8	STE6850630*37C**
6.8	57	34	46.5	1.2	2.8	30	180	1224	14.2	STE6850630*57C**
<b>U<sub>N</sub> 1000V.DC Urms 500V.AC U<sub>s</sub> 1500V</b>										
0.15	32	10	17.5	0.8	20	20	1100	165	5.5	STE1541000*32A**
0.22	32	12	20	1	15	21	1000	220	7.3	STE2241000*32B**
0.33	32	15.5	23	1	13	21	1000	330	8.7	STE3341000*32B**
0.47	32	18.5	26	1.2		23	1000	470	10.5	STE4741000*32C**
0.47	44	14	22	1.2	9	24	900	423	9.5	STE4741000*44C**
0.15	32	10	17.5	0.8	20	20	1100	165	5.5	STE1541000*32A**
0.22	32	12	20	1	15	21	1000	220	7.3	STE2241000*32B**
0.33	32	15.5	23	1	13	21	1000	330	8.7	STE3341000*32B**
0.47	32	18.5	26	1.2		23	1000	470	10.5	STE4741000*32C**
0.47	44	14	22	1.2	9	24	900	423	9.5	STE4741000*44C**
0.68	32	20	32.5	1.2	7	25	900	612	10.8	STE6841000*32C**
0.68	44	17	25	1.2	6	26	800	544	10.2	STE6841000*44C**
1	44	21.5	29.5	1.2	5.6	27	900	900	11	STE1051000*44C**
1.5	44	26	35.5	1.2	5	29	900	1350	12	STE1551000*44C**
1.5	57	21	29	1.2	5	30	700	1050	12.2	STE1551000*57C**
2	44	28	40.5	1.2	4.8	30	800	1600	13.2	STE2051000*44C**

C <sub>N</sub> (μF)	L (mm)	T (mm)	H (mm)	φD (mm)	ESR @100kHz (mΩ)	ESL (nH)	dv/dt (V/μS)	I <sub>p</sub> (A)	I <sub>rms</sub> @25°C 100kHz (A)	Part number
U <sub>N</sub> 1000V.DC U <sub>rms</sub> 500V.AC U <sub>s</sub> 1500V										
1.5	57	21	29	1.2	5	30	700	1050	12.2	STE1551000*57C**
2	44	28	40.5	1.2	4.8	30	800	1600	13.2	STE2051000*44C**
2	57	24	33.5	1.2	4.8	32	600	1200	12.8	STE2051000*57C**
2.2	44	30	42.5	1.2	4.2	32	600	1320	13.8	STE2251000*44C**
2.2	57	25	34.5	1.2	4.2	32	500	1100	13.5	STE2251000*57C**
2.5	57	25	38	1.2	4	33	500	1250	14.2	STE2551000*57C**
3	57	28	40.5	1.2	3.5	34	480	1440	15.6	STE3051000*57C**
3.3	57	29.5	42	1.2	3.2	35	450	1485	16.5	STE3351000*57C**
3.5	57	30.5	43	1.2	3.2	35	450	1575	17.2	STE3551000*57C**
4.7	57	35	50.5	1.2	3	36	420	1974	17.8	STE4751000*57C**
5.6	57	38.5	65	1.2	2.8	38	400	2240	18.2	STE5651000*57C**

U <sub>N</sub> 1200V.DC U <sub>rms</sub> 550V.AC U <sub>s</sub> 1800V										
0.1	32	8.5	16	0.8	20	20	1300	130	6	STE1041200*32A**
0.15	32	10	17.5	1	18	20	1200	180	7.5	STE1541200*32B**
0.22	32	13	21	1	15	22	1200	264	8.3	STE2241200*32B**
0.33	32	16	24	1	12	23	1200	396	9	STE3341200*32B**
0.47	32	17.5	30	1.2	10	23	1200	564	9.5	STE4741200*32C**
0.47	44	15	23	1.2	9	26	1100	517	9.8	STE4741200*44C**
0.68	32	21.5	34	1.2	8	25	1100	517	10	STE6841200*32C**
0.68	44	18.5	26.5	1.2	6	27	1000	680	11.7	STE6841200*44C**
1	44	23	31	1.2	5	28	1000	1000	12.4	STE1051200*44C**
1.5	44	26.5	39	1.2	5	30	950	1425	13.5	STE1551200*44C**
1.5	57	22.5	30.5	1.2	5	29	900	1350	12.6	STE1551200*57C**
2	44	29	45	1.2	5	30	800	1600	14.2	STE2051200*44C**
2	57	26.5	34.5	1.2	4.8	30	750	1500	13.8	STE2051200*57C**
2.2	44	31	47	1.2	4.2	32	800	1760	14.5	STE2251200*44C**
2.2	57	27.5	35.5	1.2	4.2	35	700	1540	14.5	STE2251200*57C**
3	57	29	44.5	1.2	3.2	37	500	1500	17.2	STE3051200*57C**
3.3	57	30.5	46	1.2	3.2	38	450	1485	17.8	STE3351200*57C**
4.7	57	38	53.5	1.2	3	38	420	1974	18.2	STE4751200*57C**

U<sub>N</sub> 1700V.DC Urms 575V.AC Us 2550V

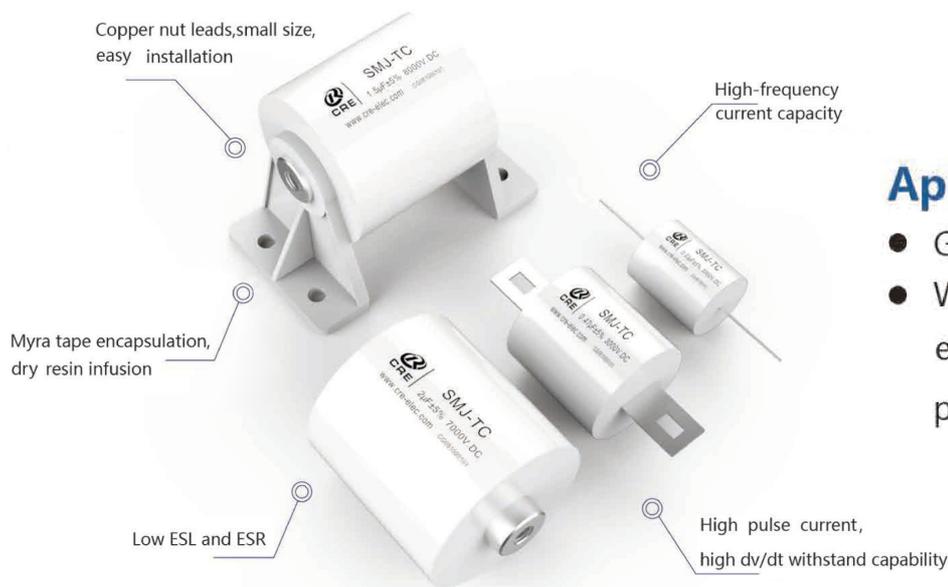
0.1	32	9.5	17.5	0.8	18	25	1300	130	7.5	STE1041700*32A**
0.15	32	12	20	1	16	24	1200	180	8.5	STE1541700*32B**
0.22	32	15	23	1	15	24	1200	264	9.3	STE2241700*32B**
0.33	32	18.5	26.5	1	12	22	1200	396	9.9	STE3341700*32B**
0.33	44	13.5	21.5	1.2	12	29	1100	363	10.2	STE3341700*44C**
0.47	44	16	24	1.2	9	28	1000	470	11.2	STE4741700*44C**
0.68	44	20	28	1.2	8	27	1000	680	11.7	STE6841700*44C**
1	44	24	33.5	1.2	5.6	26	900	900	12.4	STE1051700*44C**
1	57	19.5	27.5	1.2	6	33	850	850	10.8	STE1051700*57C**
1.5	44	28	40.5	1.2	4.8	25	800	1200	13.5	STE1551700*44C**
1.5	57	24	32	1.2	5	33	750	1125	13.5	STE1551700*57C**
2	44	31.5	47	1.2	4.5	24	750	1500	14.2	STE2051700*44C**
2	57	27.5	37	1.2	4.8	32	650	1300	12.8	STE2051700*57C**
2.2	44	33.5	49	1.2	4.5	34	700	1540	15.6	STE2251700*44C**
2.2	57	29	40	1.2	4.2	32	600	1320	14.5	STE2251700*57C**
3	57	31	46.5	1.2	4	30	560	1680	17.2	STE3051700*57C**
3.3	57	33	48.5	1.2	3.2	29	500	1650	17.6	STE3351700*57C**
4	57	37	52.5	1.2	3	28	450	1800	18.2	STE4051700*57C**

U<sub>N</sub> 2000V.DC Urms 700V.AC Us 3000V

0.068	32	9	17	0.8	25	23	1500	102	6.9	STE6832000*32B**
0.1	32	11.5	19.5	1	18	22	1500	150	8.2	STE1042000*32B**
0.1	37	10.5	18.5	1	18	26	1450	145	8	STE1042000*37B**
0.22	32	17.5	25.5	1.2	15	21	1400	308	9.1	STE2242000*32C**
0.22	37	16	24	1.2	15	25	1300	286	9	STE2242000*37C**
0.33	37	20	28	1.2	12	24	1250	412.5	9.5	STE3342000*37C**
0.33	44	18	26	1.2	12	30	1200	396	10.2	STE3342000*44C**
0.47	44	19.5	32	1.2	10	29	1100	517	12.4	STE4742000*44C**
0.68	44	24	36.5	1.2	8	28	1000	680	14.2	STE6842000*44C**
0.68	57	18.5	31	1.2	8	27	900	612	14.2	STE6842000*57C**
1	57	23.5	36	1.2	6	31	950	950	14.5	STE1052000*57C**
1.5	57	29.5	42	1.2	5	31	850	1275	14.5	STE1552000*57C**
2	57	33	48.5	1.2	4.2	31	750	1500	16.5	STE2052000*57C**
2.2	57	35	50.5	1.2	4	30	700	1540	17.8	STE2252000*57C**

U<sub>N</sub> 3000V.DC Urms 750V.AC Us 4500V

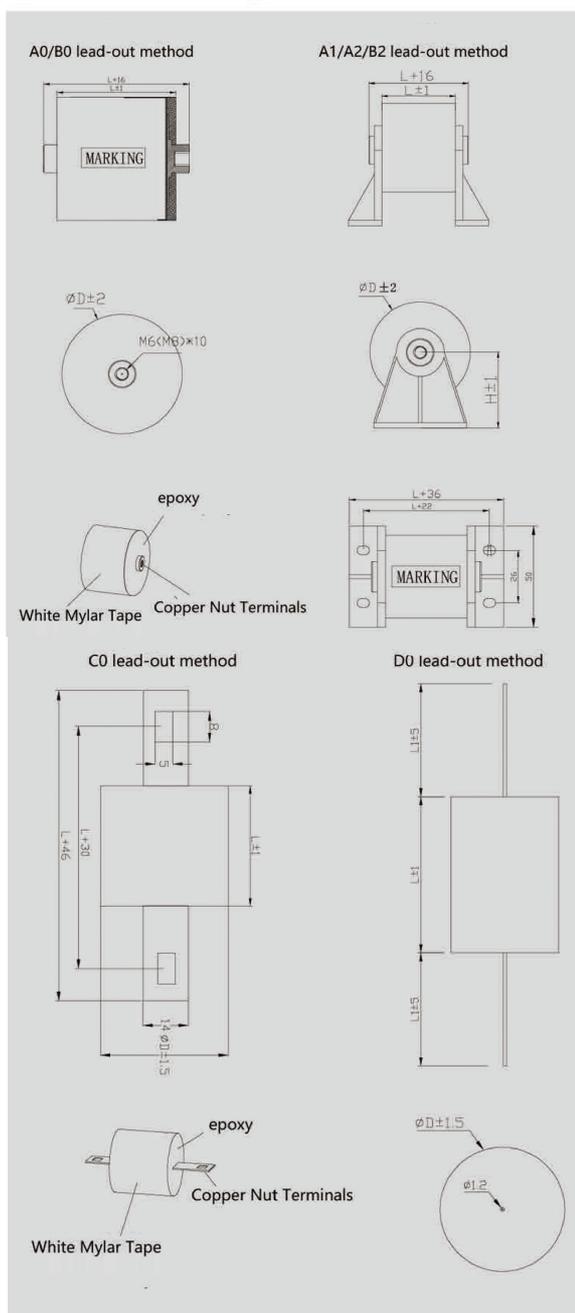
0.047	44	13.5	21.5	1	22	20	2000	94	8.5	STE4733000*44B**
0.068	44	17	25	1	20	20	1800	122.4	10.5	STE4733000*44B**
0.1	44	20.5	28.5	1.2	18	20	1500	150	12.4	STE1043000*44C**
0.15	44	26	34	1.2	16	22	1350	202.5	13.8	STE1543000*44C**
0.22	44	29	41.5	1.2	14.5	22	1200	264	14.5	STE2243000*44C**



### Application

- GTO snubber.
- Widely used in power electronic electronic equipment when the peak voltage, peak current absorption protection

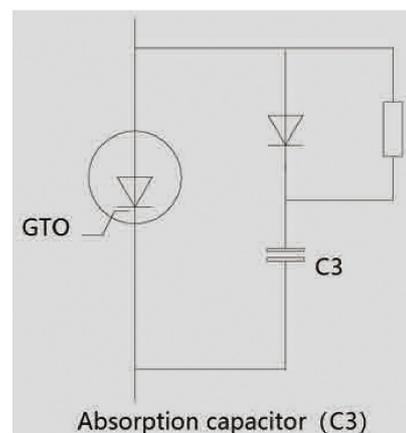
### The contour map



### Technical data

Operating temperature range	Max. Operating temperature. Top, max: +85°C Upper category temperaturer: +85°C Lower category temperaturer: -40°C
(C <sub>N</sub> ) /Capacitance range	0.22μF~3μF
(U <sub>N</sub> ) /Rated voltage	3000V.DC~10000V.DC
Cap.tol	±5 (J) ; ±10% (K)
Withstand voltage	1.35U <sub>N</sub> /10s
Dissipation factor	tgδ ≤ 0.001 f=1kHz
Insulation resistance	C ≤ 0.33μF R <sub>s</sub> ≥ 15000MΩ (at 20°C 100V.DC 60s ) C > 0.33μF R <sub>s</sub> × C ≥ 5000s (at 20°C 100V.DC 60s)
Withstand strike current	See attached table
Life expectancy	100000h (U <sub>N</sub> ; θ <sub>hotspot</sub> ≤ 70°C)
Reference standard	IEC61071

### The circuit diagram



$C_N$ ( $\mu F$ )	$\varphi D$ (mm)	L (mm)	ESL (nH)	dv/dt (V/ $\mu S$ )	$I_p$ (A)	$I_{rms}$ (A)	Part number
<b><math>U_N = 3000V.DC</math></b>							
0.22	35	44	25	1100	242	30	STC2243000*44****
0.33	43	44	25	1000	330	35	STC3343000*44****
0.47	51	44	22	850	399	45	STC4743000*44****
0.68	61	44	22	800	544	55	STC6843000*44****
1	74	44	20	700	700	65	STC1053000*44****
1.2	80	44	20	650	780	75	STC1253000*44****
1.5	52	70	30	600	900	45	STC1553000*70****
2	60	70	30	500	1000	55	STC2053000*70****
3	73	70	30	400	1200	65	STC3053000*70****
4	83	70	30	350	1400	70	STC4053000*70****
<b><math>U_N = 6000V.DC</math></b>							
0.22	43	60	25	1500	330	35	STC2246000*60****
0.33	52	60	25	1200	396	45	STC3346000*60****
0.47	62	60	25	1000	470	50	STC4746000*60****
0.68	74	60	22	900	612	60	STC6846000*60****
1	90	60	22	800	900	75	STC1056000*60****
<b><math>U_N = 7000V.DC</math></b>							
0.22	45	57	25	1100	242	30	STC2247000*57****
0.68	36	80	28	1000	680	25	STC6847000*80****
1	43	80	28	850	850	30	STC1057000*80****
1.5	52	80	25	800	1200	35	STC1557000*80****
1.8	57	80	25	700	1260	40	STC1857000*80****
2	60	80	23	650	1300	45	STC2057000*80****
3	73	80	22	500	1500	50	STC3057000*80****
<b><math>U_N = 8000V.DC</math></b>							
0.33	35	90	30	1100	363	25	STC3348000*90****
0.47	41	90	28	1000	470	30	STC4748000*90****
0.68	49	90	28	850	578	35	STC6848000*90****
1	60	90	25	800	800	40	STC1058000*90****
1.5	72	90	25	700	1050	45	STC1558000*90****
2	83	90	25	650	1300	50	STC2058000*90****
<b><math>U_N = 10000V.DC</math></b>							
0.33	45	114	35	1500	495	30	STC33410000*114****
0.47	54	114	35	1300	611	35	STC47410000*114****
0.68	65	114	35	1200	816	40	STC68410000*114****
1	78	114	30	1000	1000	55	STC10510000*114****
1.5	95	114	30	800	1200	70	STC15510000*114****