

Catalogue

Snubber is used for IGBT high frequency protection

DTM Square shell welding piece 700-3000Vdc.....	04
DTM Square shell pad three-level 700-1700Vdc.	11
DTS Axial lead 700-3000Vdc.....	12
DTC Square shell pin 700-3000Vdc.....	16

DC-Link DC filter for DC chain support

DHA Square shell pin 700-1100Vdc.....	22
DHB High ripple isolation 400,800,1000Vdc	60
DCG Square aluminum or stainless steel housing 2000-4000Vdc.....	27
DHF Round plastic shell 500-2200Vdc.....	29
DHE Round plastic shell 900-4000Vdc.....	31
DHD Circular aluminum shell with high energy density 700-1200Vdc.....	35
DHC Square aluminum & plastic shell 450-800Vdc.....	38

AC For AC filtering

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DTG Square shell pin 250-500Vac.....	50
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High frequency high current high ripple resonance

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matters needing attention Third cover



At any time, we may change the contents of this manual. For more information, please refer to our website or consult the sales staff.
<http://www.dawncap.cn> www.dawncapacitors.com

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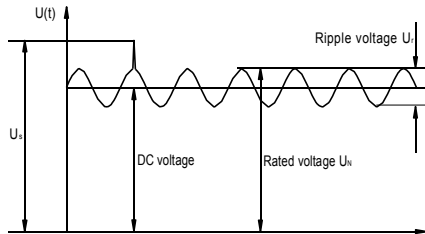
1. Technical terms and definitions

1.1 rated capacitance C_n

The test condition is $20 \pm 5^\circ \text{C}$, 100Hz, and the measured capacitor capacity.

1.2 Rated voltage U_n

The design rating of capacitor refers to the maximum or peak value of non reverse voltage waveform.



1.3 Unrepeatable peak (aperiodic surge) voltage U_s

For the voltage exceeding the rated value caused by equipment switch or line fault, the duration of each time shall not exceed 50dms,

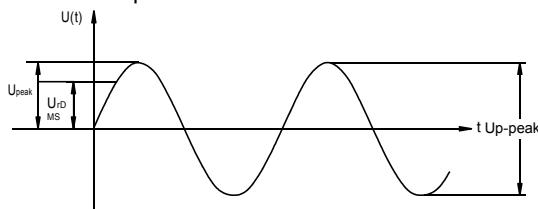
and the maximum number of times allowed is 1000.

1.4 ripple voltage U_r

Peak to peak of AC component of unidirectional rectified voltage

1.5 Rated AC voltage U_r DMS

Root mean square of the maximum sine wave AC voltage in continuous operation.



1.6 A.C Peak voltage U_{peak}

Allowable A.C peak voltage in continuous operation

1.7 DU/DT

The rise or fall time of the maximum voltage is generally described as the value that the capacitor can withstand the rise or fall of voltage per microsecond

1.8 Maximum non repeatable voltage rise (du/dt) s

Transient and non repeatable voltage rise peak due to fault.

1.9 Test voltage between electrodes U_t-t

Routine test items under room temperature before delivery. At the user's site, it is allowed to conduct another test according to 80% of the test voltage indicated in the product specification.

1.10 test voltage U_t-c between electrode and shell

For the routine test items at room temperature, the withstand voltage between the electrode and the shell shall be tested after the electrode is short circuited. Repeated tests are allowed at the user's site.

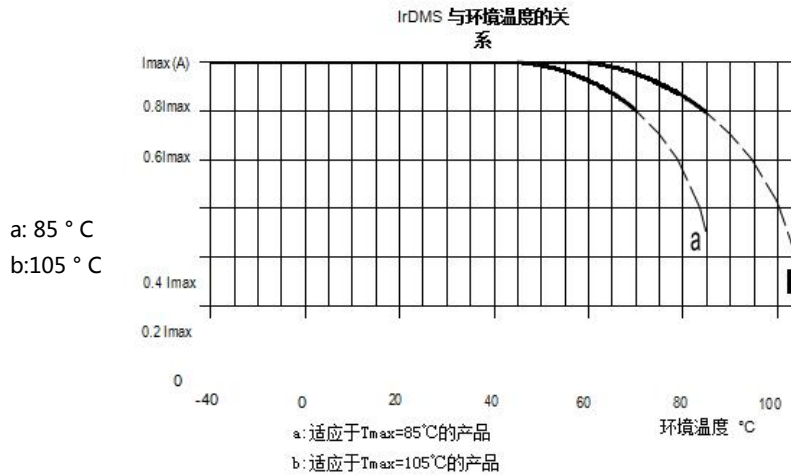
1.11 peak current I_{peak}

Maximum allowable repeatable current amplitude during continuous operation. $I_{peak} = C_n \times (du/dt)$

1.12 maximum current I_{max}

The maximum effective current during continuous operation. The maximum current given in the data sheet depends on the maximum power loss or the current limit of the capacitor terminal.

Relationship between I_{rDMS} and ambient temperature:



1.13 non repetitive peak current (surge) I_s

The maximum current that occurs temporarily and unrepeatedly due to a fault. The duration of each time shall not exceed 50dms, and the maximum number of occurrences allowed is 1000. $I_s = C_n \times (du / dt) s$

1.14 equivalent series resistance ESR

The equivalent resistance value of all resistance related factors in the capacitor. Circuit power loss used to calculate current.

1.15 self inductance L_S

The inductance of a capacitor due to its own structure.

1.16 insulation resistance I_R

It is usually expressed by the charging time constant R · C: under the ambient temperature of 20 ± 5 ° C and the voltage of 100VDC, the reading 1 minute after the capacitor is fully charged, measure the leakage current and calculate the IR It is usually expressed by charging time constant R.C. the unit of R.C is s:

$$s = M\Omega \times \mu F$$

1.17 resonance frequency f_r

Capacitance and self inductance will form a series resonant circuit. Outside this resonant frequency, if the inductive reactance of the LC line is dominant, the capacitor will present the characteristics of an inductance

$$f_r = \frac{1}{2\pi\sqrt{C_n \times L_s}}$$

1.18 Dielectric loss factor Tanδ₀

Fixed loss factor of capacitor dielectric material at rated frequency.

1.19 loss factor Tan δ

$$\tan \delta = \text{two} \times \pi \times f \times C_n \times \text{ESR}$$

1.20 thermal resistance R_{TH}

It refers to the rising value of the hot spot temperature of the capacitor corresponding to the loss of the capacitor.

1.21 maximum power loss P_{max}

$$P_{max} = \frac{T_{hs} - T_e}{R_{th}}$$

1.22 ambient temperature t_e

The air temperature around the capacitor, the test point is 10 cm away from the vertical height of the capacitor shell. Hot spot temperature t_{hs} The highest temperature inside the capacitor

1.23 Hot spot temperature t_{hs}

The highest temperature inside the capacitor.

1.24 minimum climate temperature T_{min}

Minimum allowable temperature of capacitor in use

1.25 maximum climate temperature T_{max}

The maximum allowable temperature when the capacitor is used, that is, the maximum temperature of the shell.

1.26 rated energy storage W_N

Energy storage capacity of capacitor during charging at rated voltage

$$W_n = 1/2 \times C_n \times (U_n)^2$$

1.27 air gap L

The shortest distance between the conductive parts of the electrode or between the electrode and the housing.

1.28 creepage distance K

The shortest distance between the conductive parts of the electrode or the insulating surface between the electrode and the shell.

1.29 altitude

The maximum allowable altitude is 2000 meters. With the decrease of atmospheric pressure, arc discharge is more likely to occur between electrodes. When used at high altitude, the capacitor is not easy to dissipate heat, which will lead to increased loss and failure.

1.30 storage temperature

Allowable storage temperature range of capacitor.

1.31 life expectancy L_e

The expected life of capacitor depends on the internal temperature and dielectric field strength. Relationship between life expectancy and voltage

$$L_e = L_n \times (U_n/U_w)^7$$

L_e = life expectancy at operating voltage (H) L_n = life expectancy at rated voltage (H) U_n = rated voltage (V)

U_w = working voltage (V)

Relationship between life expectancy and temperature

$$L_e = L_{T0} \times 2^{(T_0 - T_{hs})/11}$$

L_e = life expectancy at actual hot spot temperature (H) L_{T0} = hot spot temperature 70 ° Life expectancy at C (H) T_0 = hot spot temperature 70 ° C (° C)

T_{hs} = hot spot temperature in actual operation (° C)

2. Installation and operation guide**2.1 overvoltage circuit breaker**

When using explosion-proof capacitors, it must be ensured that:

the connecting wire must have a certain elasticity to prevent the connecting wire from pulling and losing the explosion-proof function during explosion-proof action. an expansion space $\geq 12\text{mm}$ shall be reserved above the electrode of the capacitor.

2.2 installation position

In addition to the specially specified series, for example, DAF / DMB / DRG series can only be installed vertically, that is, the electrode is above, and other capacitors can adopt different installation directions. However, pay attention to the following situations: aluminum shell capacitors and rectangular metal shell capacitors with voltage higher than 3600v must be installed horizontally. for capacitors with high voltage or circular steel shell, horizontal installation is allowed, but the manufacturer should be consulted in advance.

2.3 assembly

If the vibration stress does not exceed 5g, the bolts at the bottom of aluminum shell capacitor with diameter 60 mm and height 160 mm can be used for fixing. For larger diameter and vibration stress greater than 5g, the capacitor needs to be fixed with clamp ring.

Bolt installation data:

Bolt diameter	Bolt length	Maximum torque
M8	10mm	4.5N.m
M10	12mm	6N.m
M12	16mm	8N.m

2.4 installing terminals

The tightening torque of bolts and nuts for installing terminals can be referred to a separate data sheet. These torques cannot be used on plastic parts.

Bolt diameter	Maximum torque
M5	2.5N.m
M6	4.5N.m
M8	8.5N.m

Screw diameter	Maximum torque
M8	8.5N.m
M10	12N.m
M12	15N.m

2.4.1 the maximum cross section of connecting wire shall be in accordance with VDE / din

Flexible wires should be used for terminals with ceramics as insulators, so as to avoid mechanical stress on ceramics.

The wiring outside the capacitor needs to consider that the heat cannot be transmitted to other components, and also consider keeping the heat away from the terminal of the capacitor.

2.5 grounding

According to VDE 0100, both bottom bolts and iron hoops can be used for grounding. Single pole and fully insulated capacitors can not be grounded. When the metal clamp is used for grounding, the paint on the surface of the clamp needs to be removed.

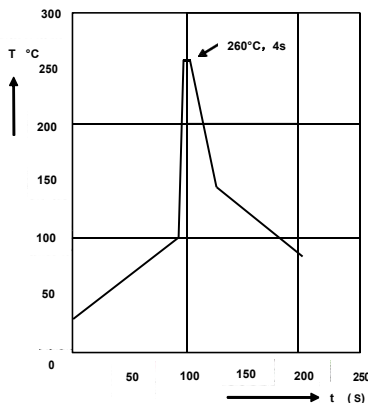
2.6 safety protection measures

When using, pay attention to the self charging phenomenon, and the capacitor contains high electric energy, and observe appropriate safety protection measures.

2.7 welding conditions of axial and box capacitors on PCB

In order to control the temperature inside the capacitor, the setting of welding temperature shall not exceed the following limit: soldering bath temperature $260 \pm 5^\circ\text{C}$. For box capacitors with a foot distance greater than 10mm, the welding time is 4S. When welding, it must be ensured that the capacitor will not be damaged due to overheating: if the cross section of the conductor is greater than 1.5 mm^2 , the welding method shall not be adopted, but the fastening connection method shall be adopted.

do not weld in the heat concentrated part.



Tin dipping depth	The horizontal plane of capacitor body or substrate is upward $2.0 +0/-0.5\text{mm}$
Protective plate	Heat absorption plate, $(1.5 \pm 0.5)\text{ mm}$ thick, It is placed between the capacitor body and the tin material
Evaluation criteria: Visual inspection C/C ₀ Tanδ	No visible damage 2% for DTC/DTG/DRB/DTG 5% for DTC/DTG/DRB/DTG

3. End of product life and waste disposal

Dawncap capacitor materials strictly comply with national regulations:

chemical prohibition regulations

CFC halogen prohibition regulations

Our products do not contain PCB, so there is no need to deal with scrapped products according to the special management regulations on waste disposal.

We need to be responsible for the environment, so we hope users should be careful when dealing with waste products. In any case, we hope users will consult the waste disposal department for relevant regulations.

4. Transportation and packaging

In terms of product packaging, dawncap naturally supports the needs of environmental protection.

use environmentally friendly materials and try to use product packaging.

pallets shall be used as far as possible, and the pallets shall be fixed with environmental friendly PE or PP plastic belts.

cardboard is preferred for the isolation layer of pallet and packing box.

5. Product application description

5.1dc Link Application

The rated voltage of the capacitor must be equal to or greater than the sum of the applied voltage and the line ripple voltage: $UN \geq UDC + ur / 2$

Select the corresponding capacitance CN and rated voltage UN according to the parameters in the data sheet; At the same time, the maximum effective current that the capacitor can withstand during long-term operation needs to be verified. Maximum effective

IMAX depends on the terminals of the capacitor and the values specified in the data sheet.

The surge voltage in the following range will not have a significant impact on the shortening of the expected life of the capacitor:

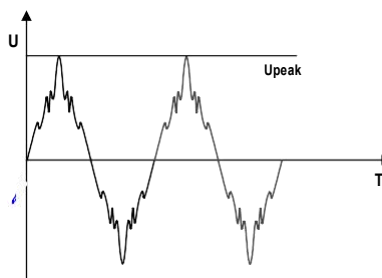
Repetitive surge voltage	Maximum duration
1.1 × Un	Working time totle 30%
1.15 × Un	30 min/d 5
1.2 × Un	min/d 1
1.3 × Un	min/d
1.5 × Un	100 DMS , No more than 1000 次

5.2 Ac application

The rated voltage of the capacitor must be equal to or greater than the maximum of upeak1 and upeak2. Select the corresponding capacitance CN and rated voltage UN according to the parameters in the data sheet; At the same time, the maximum effective current that the capacitor can withstand during long-term operation needs to be verified. The maximum effective IMAX depends on the terminals of the capacitor and the values specified in the data sheet.

5.3 Ac filtering application

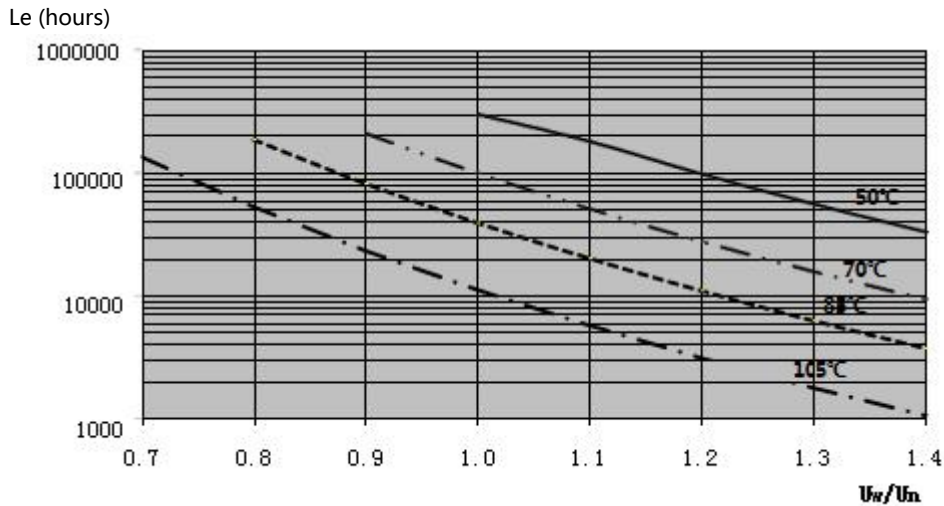
The standard for selecting the rated voltage UN of AC filter capacitor is not the effective voltage urdms, but the peak voltage formed by the superposition of various harmonics, which is calculated by instrument test or according to the harmonic data provided. In any case, the rated voltage of the capacitor must be greater than the peak voltage in the line.



5.4 service life

The working life of the capacitor depends on the temperature and dielectric field strength inside the capacitor under working conditions. The average life of the capacitor design is 100000 hours. (allowable failure rate $\leq 150\text{ppm}$). These values are related to the hot spot temperature indicated in the selection table.

The following icons illustrate the relationship between life, temperature and operating voltage:

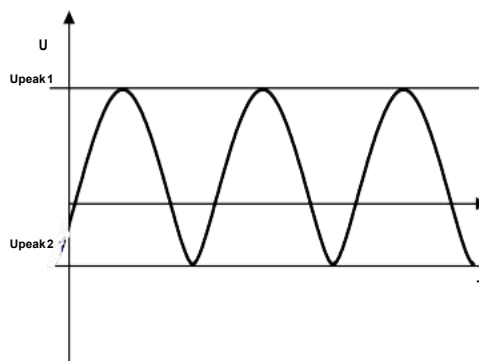


5.5 Life Declaration and invalidation

There may be unreasonable assumptions, and users will form a wrong idea about the service life: as long as the rated service temperature and working voltage are reduced, the service life of the capacitor will be one million hours or more. Please note that the statement about the life of the capacitor is purely theoretical.

5.6 failure modes

Plastic film capacitors have two typical failure modes: open circuit or short circuit (or high resistance short circuit). In addition, capacitance drift, unstable working temperature, high loss or low insulation resistance will lead to capacitor failure. All failures are caused by dielectric degradation caused by exceeding the limits of electrical, mechanical and environmental factors during operation.



Product features

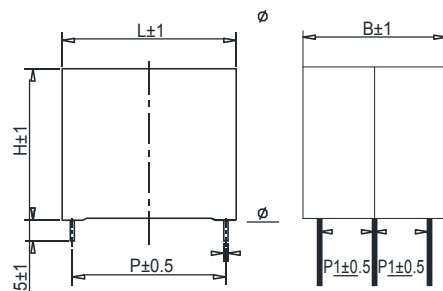
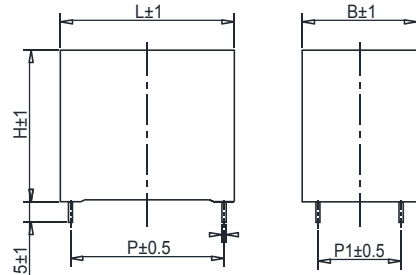
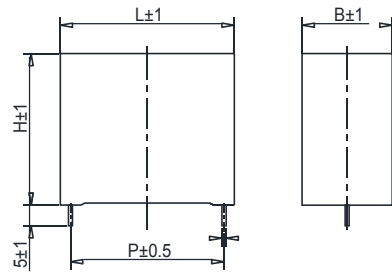
Reference standard : IEC 61071
 medium : Metallized polypropylene film
 structure : Dry non inductive structure, polyester tape packaging,
 resin filling (UL94 V-0)

Electrical characteristics

working temperature : -40 ~+ 105 °C
 Capacity range : 0.0047 ~5.60μF
 Rated voltage : 700 至 3000VDC
 Capacity deviation : ± 5% , ± 10%
 Loss factor : $\leq 6 \times 10^{-4}$ @ 1KHz, 20±5 °C
 life expectancy : 100,000 小时 @ Un, 70 °C(热点温度)
 Interelectrode withstand voltage : 1.5Un (DC) @ 10s, 20±5 °C
 Polar shell withstand voltage :
 (1.5Un+1000)VAC, 最小 3000VAC (10s, 50Hz)
 insulation resistance : (IR×Cn) 30000s (不超过
 30GΩ), 100VDC (20±5 °C), 1
 minute

Application

IGBT surge absorption high frequency resonance



Characteristic parameter

ordering code	容量 (μF)	尺寸 (mm)						Du/dt (v/μs)	Ipeak (A)	IrDMS@60° C @10KHz (A)	ESR@100KHz (mΩ)
		L	B	H	P	P1	d				
Un 700VDC , UrDMS 380VAC , Us 1050V											
DTC-700-0.10-2T	0.10	26.5	8.5	17.0	22.5		0.8	600	60	3.6	21.3
DTC-700-0.15-2T	0.15	26.5	10.0	18.5	22.5		0.8	600	90	5	16.3
DTC-700-0.22-2T	0.22	26.5	11.0	20.0	22.5		0.8	600	132	6.5	11.5
DTC-700-0.22-2V	0.22	31.0	11.0	20.0	27.5		1.0	485	107	6.5	15.2
DTC-700-0.33-2V	0.33	31.0	13.0	22.0	27.5		1.0	485	160	8.5	11.2
DTC-700-0.47-2V	0.47	31.0	15.0	24.5	27.5		1.0	485	228	9	6.9
DTC-700-0.68-2V	0.68	31.0	17.0	28.0	27.5		1.2	485	330	12	5.5
DTC-700-0.68-4V	0.68	31.0	17.0	28.0	27.5	5.1	1.2	485	330	16	4.6
DTC-700-0.82-4V	0.82	31.0	17.0	28.0	27.5	10.2	1.2	485	398	12	4.8
DTC-700-0.82-2F	0.82	42.5	15.0	26.0	37.5		1.2	325	267	12	5.1
DTC-700-1.0-2V	1.0	31.0	22.0	31.0	27.5		1.2	485	485	12	4.8
DTC-700-1.0-4V	1.0	31.0	22.0	31.0	27.5	10.2	1.2	485	485	19	3.9
DTC-700-1.0-2F	1.0	42.5	17.0	28.0	37.5		1.2	325	325	12	4.9
DTC-700-1.5-2F	1.5	42.5	22.0	30.0	37.5		1.2	325	488	12	4.8
DTC-700-1.5-4F	1.5	42.5	22.0	30.0	37.5	10.2	1.2	325	488	19	5.2
DTC-700-2.0-2F	2.0	42.5	28.0	37.0	37.5		1.2	325	650	12	4.5
DTC-700-2.0-4F	2.0	42.5	28.0	37.0	37.5	10.2	1.2	325	650	22	4.3
DTC-700-2.2-2F	2.2	42.5	28.0	37.0	37.5		1.2	325	715	12	4.2
DTC-700-2.2-4F	2.2	42.5	28.0	37.0	37.5	20.3	1.2	325	715	22	3.8
DTC-700-3.0-2F	3.0	42.5	30.0	45.0	37.5		1.2	325	975	12	3.9
DTC-700-3.0-4F	3.0	42.5	30.0	45.0	37.5	20.3	1.2	325	975	22	3.6
DTC-700-3.0-6F	3.0	42.5	30.0	45.0	37.5	10.2	1.2	325	975	27	3.5

Characteristic parameter

ordering code	容量 (μF)	尺寸 (mm)						Du/dt ($\text{v}/\mu\text{s}$)	Ipeak (A)	IrDMS@60° C @10KHz (A)	ESR@100KHz ($\text{m}\Omega$)
		L	B	H	P	P1	d				
Un 700VDC , UrDMS 380VAC , Us 1050V											
DTC-700-3.3-2F	3.3	42.5	30.0	45.0	37.5		1.2	325	1073	12	3.8
DTC-700-3.3-4F	3.3	42.5	30.0	45.0	37.5	20.3	1.2	325	1073	22	3.6
DTC-700-3.3-6F	3.3	42.5	30.0	45.0	37.5	10.2	1.2	325	1073	27	3.2
DTC-700-4.0-2F	4.0	42.5	33.0	45.0	37.5		1.2	325	1300	13	3.2
DTC-700-4.0-4F	4.0	42.5	33.0	45.0	37.5	20.3	1.2	325	1300	23	3.1
DTC-700-4.0-6F	4.0	42.5	33.0	45.0	37.5	10.2	1.2	325	1300	28	3.0
DTC-700-4.0-2G	4.0	57.5	30.0	45.0	52.5		1.2	200	800	12	4.5
DTC-700-4.0-4G	4.0	57.5	30.0	45.0	52.5	20.3	1.2	200	800	22	3.6
DTC-700-4.0-6G	4.0	57.5	30.0	45.0	52.5	10.2	1.2	200	800	27	3.6
DTC-700-4.7-2G	4.7	57.5	30.0	45.0	52.5		1.2	200	940	12	4.5
DTC-700-4.7-4G	4.7	57.5	30.0	45.0	52.5	20.3	1.2	200	940	22	4.2
DTC-700-4.7-6G	4.7	57.5	30.0	45.0	52.5	10.2	1.2	200	940	31	3.9
DTC-700-5.0-2G	5.0	57.5	30.0	45.0	52.5		1.2	200	1000	12	4.4
DTC-700-5.0-4G	5.0	57.5	30.0	45.0	52.5	20.3	1.2	200	1000	22	4.1
DTC-700-5.0-6G	5.0	57.5	30.0	45.0	52.5	10.2	1.2	200	1000	31	4.1
DTC-700-5.6-2G	5.6	57.5	35.0	50.0	52.5		1.2	200	1120	12	4.1
DTC-700-5.6-4G	5.6	57.5	35.0	50.0	52.5	20.3	1.2	200	1120	22	3.8
DTC-700-5.6-6G	5.6	57.5	35.0	50.0	52.5	10.2	1.2	200	1120	31	3.6
Un 850VDC , UrDMS 450VAC , Us 1275V											
DTC-850-0.068-2T	0.068	26.5	8.5	17.0	22.5		0.8	850	58	3.5	21.5
DTC-850-0.10-2T	0.10	26.5	10.0	18.5	22.5		0.8	850	85	4.5	18.7
DTC-850-0.15-2T	0.15	26.5	11.0	20.0	22.5		0.8	850	128	6.5	11.2
DTC-850-0.15-2V	0.15	31.0	11.0	20.0	27.5		0.8	700	105	6.5	12.9
DTC-850-0.22-2V	0.22	31.0	13.0	22.0	27.5		1.0	700	154	8	9.6
DTC-850-0.33-2V	0.33	31.0	15.0	24.5	27.5		1.0	700	231	9	7.5
DTC-850-0.47-2V	0.47	31.0	18.0	33.0	27.5		1.2	700	329	12	5.9
DTC-850-0.47-4V	0.47	31.0	18.0	33.0	27.5	10.2	1.2	700	329	16	5.1
DTC-850-0.56-2V	0.56	31.0	18.0	33.0	27.5		1.2	700	392	18	4.7
DTC-850-0.56-4V	0.56	31.0	18.0	33.0	27.5	10.2	1.2	700	392	12	5.6
DTC-850-0.56-2F	0.56	42.5	15.0	26.0	37.5		1.2	400	224	12	5.7
DTC-850-0.68-2V	0.68	31.0	22.0	31.0	27.5		1.2	700	476	12	5.1
DTC-850-0.68-4V	0.68	31.0	22.0	31.0	27.5	10.2	1.2	700	476	19	4.2
DTC-850-0.68-2F	0.68	42.5	17.0	28.0	37.5		1.2	400	272	12	5.4
DTC-850-1.0-2F	1.0	42.5	22.0	30.0	37.5		1.2	400	400	12	5.1
DTC-850-1.0-4F	1.0	42.5	22.0	30.0	37.5	10.2	1.2	400	400	21	4.1
DTC-850-1.5-2F	1.5	42.5	28.0	37.0	37.5		1.2	400	600	12	4.2
DTC-850-1.5-4F	1.5	42.5	28.0	37.0	37.5	20.3	1.2	400	600	22	3.4
DTC-850-2.0-2F	2.0	42.5	30.0	45.0	37.5		1.2	400	800	12	3.8
DTC-850-2.0-4F	2.0	42.5	30.0	45.0	37.5	20.3	1.2	400	800	22	3.2
DTC-850-2.0-6F	2.0	42.5	30.0	45.0	37.5	10.2	1.2	400	800	26	3.2
DTC-850-2.2-2F	2.2	42.5	30.0	45.0	37.5		1.2	400	880	12	3.8
DTC-850-2.2-4F	2.2	42.5	30.0	45.0	37.5	20.3	1.2	400	880	22	3.2
DTC-850-2.2-6F	2.2	42.5	30.0	45.0	37.5	10.2	1.2	400	880	27	3.2
DTC-850-2.5-2G	2.5	57.5	30.0	45.0	52.5		1.2	275	688	12	4.5
DTC-850-2.5-4G	2.5	57.5	30.0	45.0	52.5	20.3	1.2	275	688	22	3.5
DTC-850-2.5-6G	2.5	57.5	30.0	45.0	52.5	10.2	1.2	275	688	27	3.5
DTC-850-3.0-2G	3.0	57.5	30.0	45.0	52.5		1.2	275	825	12	4.1
DTC-850-3.0-4G	3.0	57.5	30.0	45.0	52.5	20.3	1.2	275	825	22	3.2
DTC-850-3.0-6G	3.0	57.5	30.0	45.0	52.5	10.2	1.2	275	825	27	3.2
DTC-850-3.3-2G	3.3	57.5	30.0	45.0	52.5		1.2	275	908	12	4.1
DTC-850-3.3-4G	3.3	57.5	30.0	45.0	52.5	20.3	1.2	275	908	22	3.2
DTC-850-3.3-6G	3.3	57.5	30.0	45.0	52.5	10.2	1.2	275	908	29	3.2

Characteristic parameter

ordering code	容量 (μ F)	尺寸 (mm)						Du/dt (v/ μ s)	Ipeak (A)	IrDMS@60° C @10KHz (A)	ESR@100KHz (m Ω)
		L	B	H	P	P1	d				
Un 850VDC , UrDMS 450VAC , Us 1275V											
DTC-850-4.0-2G	4.0	57.5	35.0	50.0	52.5		1.2	275	1100	12	3.8
DTC-850-4.0-4G	4.0	57.5	35.0	50.0	52.5	20.3	1.2	275	1100	22	3.0
DTC-850-4.0-6G	4.0	57.5	35.0	50.0	52.5	10.2	1.2	275	1100	28	2.8
DTC-850-4.7-2G	4.7	57.5	35.0	50.0	52.5		1.2	275	1293	12	3.5
DTC-850-4.7-4G	4.7	57.5	35.0	50.0	52.5	20.3	1.2	275	1293	22	2.7
DTC-850-4.7-6G	4.7	57.5	35.0	50.0	52.5	10.2	1.2	275	1293	30	2.5
Un 1000VDC , UrDMS 480VAC , Us 1500V											
DTC-1000-0.047-2T	0.047	26.5	7.0	16.0	22.5		0.8	1000	47	3	29.7
DTC-1000-0.068-2T	0.068	26.5	8.5	17.0	22.5		0.8	1000	68	2.3	23.5
DTC-1000-0.10-2T	0.10	26.5	11.0	20.0	22.5		0.8	1000	100	5	14.5
DTC-1000-0.10-2V	0.10	31.0	9.0	18.0	27.5		0.8	850	85	5	17.8
DTC-1000-0.15-2T	0.15	26.5	12.0	22.0	22.5		0.8	1000	150	6.5	11.3
DTC-1000-0.15-2V	0.15	31.0	11.0	20.0	27.5		0.8	850	128	6.5	12.5
DTC-1000-0.22-2V	0.22	31.0	15.0	24.5	27.5		1.0	850	187	9	9.8
DTC-1000-0.33-2V	0.33	31.0	17.0	28.0	27.5		1.0	850	281	9	8.3
DTC-1000-0.47-2V	0.47	31.0	18.0	33.0	27.5		1.2	850	400	12	5.6
DTC-1000-0.47-4V	0.47	31.0	18.0	33.0	27.5	10.2	1.2	850	400	16	4.7
DTC-1000-0.47-2F	0.47	42.5	17.0	28.0	37.5		1.2	570	268	12	7.0
DTC-1000-0.56-2F	0.56	42.5	17.0	28.0	37.5		1.2	570	319	12	6.3
DTC-1000-0.68-2F	0.68	42.5	22.0	30.0	37.5		1.2	570	388	12	5.9
DTC-1000-0.68-4F	0.68	42.5	22.0	30.0	37.5	10.2	1.2	570	388	19	5.1
DTC-1000-0.82-2F	0.82	42.5	22.0	30.0	37.5		1.2	570	467	12	5.4
DTC-1000-0.82-4F	0.82	42.5	22.0	30.0	37.5	10.2	1.2	570	467	22	4.8
DTC-1000-1.0-2F	1.0	42.5	28.0	37.0	37.5		1.2	570	570	12	5.1
DTC-1000-1.0-4F	1.0	42.5	28.0	37.0	37.5	10.2	1.2	570	570	22	4.1
DTC-1000-1.2-2F	1.2	42.5	28.0	37.0	37.5		1.2	570	684	12	5.1
DTC-1000-1.2-4F	1.2	42.5	28.0	37.0	37.5	10.2	1.2	570	684	22	5.1
DTC-1000-1.5-2F	1.5	42.5	30.0	45.0	37.5		1.2	570	855	12	5.1
DTC-1000-1.5-4F	1.5	42.5	30.0	45.0	37.5	20.3	1.2	570	855	22	3.5
DTC-1000-1.5-6F	1.5	42.5	30.0	45.0	37.5	10.2	1.2	570	855	22.5	3.5
DTC-1000-2.0-2F	2.0	42.5	33.0	45.0	37.5		1.2	570	1140	11	4.7
DTC-1000-2.0-4F	2.0	42.5	33.0	45.0	37.5	20.3	1.2	570	1140	21	4.1
DTC-1000-2.0-6F	2.0	42.5	33.0	45.0	37.5	10.2	1.2	570	1140	26	3.8
DTC-1000-2.0-2G	2.0	57.5	30.0	45.0	52.5		1.2	320	640	12	4.5
DTC-1000-2.0-4G	2.0	57.5	30.0	45.0	52.5	20.3	1.2	320	640	22	3.9
DTC-1000-2.0-6G	2.0	57.5	30.0	45.0	52.5	10.2	1.2	320	640	27	3.9
DTC-1000-2.2-2G	2.2	57.5	30.0	45.0	52.5		1.2	320	704	12	3.9
DTC-1000-2.2-4G	2.2	57.5	30.0	45.0	52.5	20.3	1.2	320	704	22	4.7
DTC-1000-2.2-6G	2.2	57.5	30.0	45.0	52.5	10.2	1.2	320	704	26	3.8
DTC-1000-3.0-2G	3.0	57.5	35.0	50.0	52.5		1.2	320	960	12	4.1
DTC-1000-3.0-4G	3.0	57.5	35.0	50.0	52.5	20.3	1.2	320	960	22	3.4
DTC-1000-3.0-6G	3.0	57.5	35.0	50.0	52.5	10.2	1.2	320	960	29	3.4
DTC-1000-3.3-2G	3.3	57.5	35.0	50.0	52.5		1.2	320	1056	12	4.1
DTC-1000-3.3-4G	3.3	57.5	35.0	50.0	52.5	20.3	1.2	320	1056	22	4.5
DTC-1000-3.3-6G	3.3	57.5	35.0	50.0	52.5	10.2	1.2	320	1056	30	4.5
Un 1200VDC , UrDMS 500VAC , Us 1800V											
DTC-1200-0.033-2T	0.033	26.5	7.0	16.0	22.5		0.8	1300	43	3	33.8
DTC-1200-0.047-2T	0.047	26.5	8.5	17.0	22.5		0.8	1300	61	3.5	26.5
DTC-1200-0.068-2T	0.068	26.5	10.0	18.5	22.5		0.8	1300	88	4	22.4
DTC-1200-0.068-2V	0.068	31.0	9.0	18.0	27.5		0.8	1100	75	4	21.5
DTC-1200-0.10-2T	0.10	26.5	12.0	22.0	22.5		0.8	1300	130	5.5	14.6
DTC-1200-0.10-2V	0.10	31.0	11.0	20.0	27.5		0.8	1100	110	5.5	15.8

Characteristic parameter

ordering code	容量 (μF)	尺寸 (mm)						Du/dt ($\text{V}/\mu\text{s}$)	Ipeak (A)	IrDMS@60° C @10KHz (A)	ESR@100KHz ($\text{m}\Omega$)
		L	B	H	P	P1	d				
Un 1200VDC , UrDMS 500VAC , Us 1800V											
DTC-1200-0.15-2V	0.15	31.0	13.0	22.0	27.5		1.0	1100	165	7	12.5
DTC-1200-0.22-2V	0.22	31.0	15.0	24.5	27.5		1.0	1100	242	9	12.5
DTC-1200-0.33-2V	0.33	31.0	18.0	33.0	27.5		1.2	1100	363	12	6.5
DTC-1200-0.33-4V	0.33	31.0	18.0	33.0	27.5	10.2	1.2	1100	363	15.5	5.6
DTC-1200-0.33-2F	0.33	42.5	15.0	26.0	37.5		1.2	650	215	12	8.3
DTC-1200-0.47-2V	0.47	31.0	22.0	31.0	27.5		1.2	1100	517	12	5.1
DTC-1200-0.47-4V	0.47	31.0	22.0	31.0	27.5	10.2	1.2	1100	517	19	4.2
DTC-1200-0.47-2F	0.47	42.5	17.0	28.0	37.5		1.2	650	306	12	7.2
DTC-1200-0.68-2F	0.68	42.5	22.0	30.0	37.5		1.2	650	442	12	5.9
DTC-1200-0.68-4F	0.68	42.5	22.0	30.0	37.5	10.2	1.2	650	442	20	5.2
DTC-1200-1.0-2F	1.0	42.5	28.0	37.0	37.5		1.2	650	650	12	5.2
DTC-1200-1.0-4F	1.0	42.5	28.0	37.0	37.5	20.3	1.2	650	650	21	4.3
DTC-1200-1.2-2F	1.2	42.5	28.0	37.0	37.5		1.2	650	780	12	5.1
DTC-1200-1.2-4F	1.2	42.5	28.0	37.0	37.5	20.3	1.2	650	780	22	3.8
DTC-1200-1.5-2F	1.5	42.5	30.0	45.0	37.5		1.2	650	975	12	4.2
DTC-1200-1.5-4F	1.5	42.5	30.0	45.0	37.5	20.3	1.2	650	975	22	3.2
DTC-1200-1.5-6F	1.5	42.5	30.0	45.0	37.5	10.2	1.2	650	975	27	3.2
DTC-1200-2.0-2G	2.0	57.5	30.0	45.0	52.5		1.2	350	700	12	4.5
DTC-1200-2.0-4G	2.0	57.5	30.0	45.0	52.5	20.3	1.2	350	700	22	3.6
DTC-1200-2.0-6G	2.0	57.5	30.0	45.0	52.5	10.2	1.2	350	700	27	3.6
DTC-1200-2.2-2G	2.2	57.5	30.0	50.0	52.5		1.2	350	770	12	4.5
DTC-1200-2.2-4G	2.2	57.5	30.0	50.0	52.5	20.3	1.2	350	770	22	3.5
DTC-1200-2.2-6G	2.2	57.5	30.0	50.0	52.5	10.2	1.2	350	770	30	3.5
DTC-1200-2.5-2G	2.5	57.5	35.0	50.0	52.5		1.2	350	875	12	4.1
DTC-1200-2.5-4G	2.5	57.5	35.0	50.0	52.5	20.3	1.2	350	875	22	3.2
DTC-1200-2.5-6G	2.5	57.5	35.0	50.0	52.5	10.2	1.2	350	875	30	3.2
DTC-1200-3.0-2G	3.0	57.5	35.0	50.0	52.5		1.2	350	1050	12	3.5
DTC-1200-3.0-4G	3.0	57.5	35.0	50.0	52.5	20.3	1.2	350	1050	22	3.2
DTC-1200-3.0-6G	3.0	57.5	35.0	50.0	52.5	10.2	1.2	350	1050	29	3.2
Un 1500VDC , UrDMS 570VAC , Us 2250V											
DTC-1500-0.022-2T	0.022	26.5	7.0	16.0	22.5		0.8	1500	33	2.5	44.5
DTC-1500-0.033-2T	0.033	26.5	8.5	17.0	22.5		0.8	1500	50	3	33.0
DTC-1500-0.047-2T	0.047	26.5	10.0	18.5	22.5		0.8	1500	71	3.5	24.8
DTC-1500-0.047-2V	0.047	31.0	9.0	18.0	27.5		0.8	1225	58	3.5	27.3
DTC-1500-0.068-2T	0.068	26.5	12.0	22.0	22.5		0.8	1500	102	5	19.5
DTC-1500-0.068-2V	0.068	31.0	11.0	20.0	27.5		0.8	1225	83	5	20.7
DTC-1500-0.10-2V	0.10	31.0	13.0	22.0	27.5		0.8	1225	123	6.5	15.3
DTC-1500-0.15-2V	0.15	31.0	17.0	28.0	27.5		1.0	1225	184	8	10.6
DTC-1500-0.22-2V	0.22	31.0	18.0	33.0	27.5		1.2	1225	270	12	7.6
DTC-1500-0.22-2F	0.22	42.5	17.0	28.0	37.5		1.2	800	176	12	10.2
DTC-1500-0.33-2F	0.33	42.5	22.0	30.0	37.5		1.2	800	264	12	6.2
DTC-1500-0.33-4F	0.33	42.5	22.0	30.0	37.5	10.2	1.2	800	264	18	5.1
DTC-1500-0.39-2F	0.39	42.5	22.0	30.0	37.5		1.2	800	312	12	6.2
DTC-1500-0.39-4F	0.39	42.5	22.0	30.0	37.5	10.2	1.2	800	312	18	4.6
DTC-1500-0.47-2F	0.47	42.5	28.0	37.0	37.5		1.2	800	376	12	6.6
DTC-1500-0.47-4F	0.47	42.5	28.0	37.0	37.5	10.2	1.2	800	376	22	5.7
DTC-1500-0.68-2F	0.68	42.5	28.0	37.0	37.5		1.2	800	544	12	5.7
DTC-1500-0.68-4F	0.68	42.5	28.0	37.0	37.5	10.2	1.2	800	544	22	4.8
DTC-1500-1.0-2F	1.0	42.5	30.0	45.0	37.5		1.2	800	800	12	4.8
DTC-1500-1.0-4F	1.0	42.5	30.0	45.0	37.5	20.3	1.2	800	800	22	3.9
DTC-1500-1.2-2G	1.2	57.5	30.0	45.0	52.5		1.2	500	600	12	5.3
DTC-1500-1.2-4G	1.2	57.5	30.0	45.0	52.5	20.3	1.2	500	600	22	4.5

Characteristic parameter

ordering code	容量 (μ F)	尺寸 (mm)						Du/dt (v/ μ s)	Ipeak (A)	IrDMS@60° C @10KHz (A)	ESR@100KHz (m Ω)
		L	B	H	P	P1	d				
Un 1500VDC , UrDMS 570VAC , Us 2250V											
DTC-1500-1.2-6G	1.2	57.5	30.0	45.0	52.5	10.2	1.2	500	600	27	4.5
DTC-1500-1.5-2G	1.5	57.5	35.0	50.0	52.5		1.2	500	750	12	4.8
DTC-1500-1.5-4G	1.5	57.5	35.0	50.0	52.5	20.3	1.2	500	750	22	4.1
DTC-1500-1.5-6G	1.5	57.5	35.0	50.0	52.5	10.2	1.2	500	750	27	4.1
DTC-1500-1.8-2G	1.8	57.5	35.0	50.0	52.5		1.2	500	900	12	4.5
DTC-1500-1.8-4G	1.8	57.5	35.0	50.0	52.5	20.3	1.2	500	900	22	3.6
DTC-1500-1.8-6G	1.8	57.5	35.0	50.0	52.5	10.2	1.2	500	900	30	3.6
Un 2000VDC , UrDMS 630VAC , Us 3000V											
DTC-2000-0.015-2T	0.015	26.5	7.0	16.0	22.5		0.8	2150	32	2	56.2
DTC-2000-0.022-2T	0.022	26.5	8.5	17.0	22.5		0.8	2150	47	2.5	40.5
DTC-2000-0.033-2T	0.033	26.5	11.0	20.0	22.5		0.8	2150	71	3.5	31.5
DTC-2000-0.033-2V	0.033	31.0	11.0	20.0	27.5		0.8	1750	58	4	35.5
DTC-2000-0.047-2T	0.047	26.5	12.0	22.0	22.5		0.8	2150	101	4.5	22.5
DTC-2000-0.047-2V	0.047	31.0	11.0	20.0	27.5		0.8	1750	82	4.5	25.2
DTC-2000-0.068-2V	0.068	31.0	13.0	22.0	27.5		0.8	1750	119	5.5	18.2
DTC-2000-0.10-2V	0.10	31.0	17.0	28.0	27.5		1.0	1750	175	8	15.7
DTC-2000-0.15-2V	0.15	31.0	18.0	33.0	27.5		1.2	1750	263	11	12.5
DTC-2000-0.15-4V	0.15	31.0	18.0	33.0	27.5	10.2	1.2	1750	263	12	10.5
DTC-2000-0.15-2F	0.15	42.5	15.0	26.0	37.5		1.2	1000	150	9	15.8
DTC-2000-0.22-2F	0.22	42.5	22.0	30.0	37.5		1.2	1000	220	12	7.8
DTC-2000-0.33-2F	0.33	42.5	28.0	37.0	37.5		1.2	1000	330	12	7.2
DTC-2000-0.33-4F	0.33	42.5	28.0	37.0	37.5	10.2	1.2	1000	330	18	4.6
DTC-2000-0.39-2F	0.39	42.5	28.0	37.0	37.5		1.2	1000	390	12	7.1
DTC-2000-0.39-4F	0.39	42.5	28.0	37.0	37.5	20.3	1.2	1000	390	19	4.5
DTC-2000-0.47-2F	0.47	42.5	28.0	37.0	37.5		1.2	1000	470	12	6.2
DTC-2000-0.47-4F	0.47	42.5	28.0	37.0	37.5	20.3	1.2	1000	470	22	5.1
DTC-2000-0.56-2F	0.56	42.5	30.0	45.0	37.5		1.2	1000	560	12	5.6
DTC-2000-0.56-4F	0.56	42.5	30.0	45.0	37.5	20.3	1.2	1000	560	22	4.6
DTC-2000-0.56-6F	0.56	42.5	33.0	45.0	37.5	10.2	1.2	1000	560	27	4.6
DTC-2000-0.68-2F	0.68	42.5	33.0	45.0	37.5		1.2	1000	680	12	5.6
DTC-2000-0.68-4F	0.68	42.5	33.0	45.0	37.5	20.3	1.2	1000	680	22	4.6
DTC-2000-0.68-6F	0.68	42.5	33.0	45.0	37.5	10.2	1.2	1000	680	28	4.5
DTC-2000-0.68-2G	0.68	57.5	30.0	45.0	52.5		1.2	580	394	12	6.5
DTC-2000-0.68-4G	0.68	57.5	30.0	45.0	52.5	20.3	1.2	580	394	22	5.4
DTC-2000-0.68-6G	0.68	57.5	30.0	45.0	52.5	10.2	1.2	580	394	27	5.4
DTC-2000-0.82-2G	0.82	57.5	30.0	45.0	52.5		1.2	580	476	12	5.9
DTC-2000-0.82-4G	0.82	57.5	30.0	45.0	52.5	20.3	1.2	580	476	22	4.8
DTC-2000-0.82-6G	0.82	57.5	30.0	45.0	52.5	10.2	1.2	580	476	24	4.6
DTC-2000-1.0-2G	1.0	57.5	35.0	50.0	52.5		1.2	580	580	12	5.4
DTC-2000-1.0-4G	1.0	57.5	35.0	50.0	52.5	20.3	1.2	580	580	22	4.5
DTC-2000-1.0-6G	1.0	57.5	35.0	50.0	52.5	10.2	1.2	580	580	29	4.5
DTC-2000-1.2-2G	1.2	57.5	35.0	50.0	52.5		1.2	580	696	12	4.8
DTC-2000-1.2-4G	1.2	57.5	35.0	50.0	52.5	20.3	1.2	580	696	22	3.7
DTC-2000-1.2-6G	1.2	57.5	35.0	50.0	52.5	10.2	1.2	580	696	29	3.7
Un 2500VDC , UrDMS 700VAC , Us 3750V											
DTC-2500-0.0068-2T	0.0068	26.5	7.0	16.0	22.5		0.8	2650	18	1.5	102
DTC-2500-0.010-2T	0.010	26.5	8.5	17.0	22.5		0.8	2650	27	2	76.5
DTC-2500-0.015-2T	0.015	26.5	10.0	18.5	22.5		0.8	2650	40	2.5	54.0
DTC-2500-0.022-2T	0.022	26.5	12.0	22.0	22.5		0.8	2650	58	3	39.8
DTC-2500-0.022-2V	0.022	31.0	11.0	20.0	27.5		0.8	2150	47	3	45.7
DTC-2500-0.033-2V	0.033	31.0	11.0	20.0	27.5		0.8	2150	71	4	33.8
DTC-2500-0.047-2V	0.047	31.0	13.0	22.0	27.5		0.8	2150	101	5.5	25.0

Characteristic parameter

ordering code	容量 (μ F)	尺寸 (mm)						Du/dt (v/ μ s)	Ipeak (A)	IrDMS@60° C @10KHz (A)	ESR@100KHz (m Ω)
		L	B	H	P	P1	d				
Un 2500VDC , UrDMS 700VAC , Us 3750V											
DTC-2500-0.068-2V	0.068	31.0	17.0	28.0	27.5		1.0	2150	146	8	17.3
DTC-2500-0.10-2V	0.10	31.0	18.0	33.0	27.5		1.2	2150	215	10	11.5
DTC-2500-0.10-4V	0.10	31.0	18.0	33.0	27.5	10.2	1.2	2150	215	11.5	11.5
DTC-2500-0.10-2F	0.10	42.5	15.0	26.0	37.5		1.2	1350	135	8.5	17.5
DTC-2500-0.15-2F	0.15	42.5	22.0	30.0	37.5		1.2	1350	203	11	11.5
DTC-2500-0.15-4F	0.15	42.5	22.0	30.0	37.5	10.2	1.2	1350	203	15	9.8
DTC-2500-0.22-2F	0.22	42.5	28.0	37.0	37.5		1.2	1350	297	12	8.7
DTC-2500-0.22-4F	0.22	42.5	28.0	37.0	37.5	10.2	1.2	1350	297	22	7.8
DTC-2500-0.33-2F	0.33	42.5	28.0	37.0	37.5		1.2	1350	446	12	6.5
DTC-2500-0.33-4F	0.33	42.5	28.0	37.0	37.5	20.3	1.2	1350	446	20	5.9
DTC-2500-0.39-2F	0.39	42.5	30.0	45.0	37.5		1.2	1350	527	12	5.8
DTC-2500-0.39-4F	0.39	42.5	30.0	45.0	37.5	20.3	1.2	1350	527	20	5.6
DTC-2500-0.39-6F	0.39	42.5	33.0	45.0	37.5	10.2	1.2	1350	527	25	5.6
DTC-2500-0.47-6F	0.47	42.5	33.0	45.0	37.5	10.2	1.2	1350	635	25	5.3
DTC-2500-0.47-2G	0.47	57.5	30.0	45.0	52.5		1.2	750	353	12	6.5
DTC-2500-0.47-4G	0.47	57.5	30.0	45.0	52.5	20.3	1.2	750	353	22	5.8
DTC-2500-0.56-2G	0.56	57.5	30.0	45.0	52.5		1.2	750	420	12	6.5
DTC-2500-0.56-4G	0.56	57.5	30.0	45.0	52.5	20.3	1.2	750	420	22	5.4
DTC-2500-0.56-6G	0.56	57.5	30.0	45.0	52.5	10.2	1.2	750	420	25	5.4
DTC-2500-0.68-2G	0.68	57.5	35.0	50.0	52.5		1.2	750	510	12	6.2
DTC-2500-0.68-4G	0.68	57.5	35.0	50.0	52.5	20.3	1.2	750	510	22	5.1
DTC-2500-0.68-6G	0.68	57.5	35.0	50.0	52.5	10.2	1.2	750	510	25	5.1
DTC-2500-0.82-2G	0.82	57.5	35.0	50.0	52.5		1.2	750	615	12	5.6
DTC-2500-0.82-4G	0.82	57.5	35.0	50.0	52.5	20.3	1.2	750	615	22	4.5
DTC-2500-0.82-6G	0.82	57.5	35.0	50.0	52.5	10.2	1.2	750	615	26	4.2
Un 3000VDC , UrDMS 750VAC , Us 4500V											
DTC-3000-0.0047-2T	0.0047	26.5	7.0	16.0	22.5		0.8	3400	16	1.5	130.5
DTC-3000-0.010-2T	0.010	26.5	11.0	20.0	22.5		0.8	3400	34	2.5	68.5
DTC-3000-0.010-2V	0.010	31.0	9.0	18.0	27.5		0.8	2750	28	2.5	81.5
DTC-3000-0.022-2T	0.022	26.5	12.0	22.0	22.5		0.8	3400	51	3	49.5
DTC-3000-0.022-2V	0.022	31.0	11.0	20.0	27.5		0.8	2750	61	3	57.5
DTC-3000-0.022-2VS	0.022	31.0	13.0	22.0	27.5		0.8	2750	61	4	39.7
DTC-3000-0.033-2V	0.033	31.0	15.0	24.5	27.5		0.8	2750	91	5	28.5
DTC-3000-0.047-2V	0.047	31.0	18.0	33.0	27.5		1.0	2750	129	7.5	20.7
DTC-3000-0.10-2F	0.10	42.5	22.0	30.0	37.5		1.2	1600	160	10	14.5
DTC-3000-0.10-4F	0.10	42.5	22.0	30.0	37.5	10.2	1.2	1600	160	12.5	13.5
DTC-3000-0.15-2F	0.15	42.5	28.0	37.0	37.5		1.2	1600	240	12	10.2
DTC-3000-0.15-4F	0.15	42.5	28.0	37.0	37.5	10.2	1.2	1600	240	14.5	9.5
DTC-3000-0.18-4F	0.18	42.5	28.0	37.0	37.5	10.2	1.2	1600	288	16	8.7
DTC-3000-0.22-2F	0.22	42.5	30.0	45.0	37.5		1.2	1600	352	12	8.7
DTC-3000-0.22-4F	0.22	42.5	30.0	45.0	37.5	20.3	1.2	1600	352	18	7.1
DTC-3000-0.22-6F	0.22	42.5	33.0	45.0	37.5	10.2	1.2	1600	352	25	9.2
DTC-3000-0.24-6F	0.24	42.5	33.0	45.0	37.5	10.2	1.2	1600	384	24	8.7
DTC-3000-0.27-6F	0.27	42.5	33.0	45.0	37.5	10.2	1.2	1600	432	26	8.6
DTC-3000-0.33-6F	0.33	42.5	33.0	45.0	37.5	10.2	1.2	1600	528	24	8.0
DTC-3000-0.33-2G	0.33	57.5	30.0	45.0	52.5		1.2	875	289	12	8.6
DTC-3000-0.33-4G	0.33	57.5	30.0	45.0	52.5	20.3	1.2	875	289	20	9.0
DTC-3000-0.35-6F	0.35	42.5	33.0	45.0	37.5	10.2	1.2	1600	560	28	5.2
DTC-3000-0.47-2G	0.47	57.5	35.0	50.0	52.5		1.2	875	411	12	7.3
DTC-3000-0.47-4G	0.47	57.5	35.0	50.0	52.5	20.3	1.2	875	411	22	5.7