

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
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AC For AC filtering

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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

E-mail:dawncapacitor@163.com

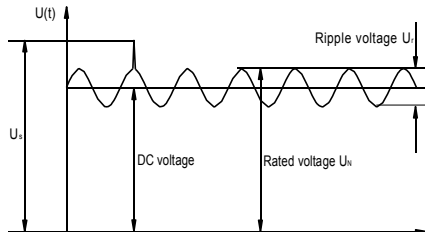
1. Technical terms and definitions

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,

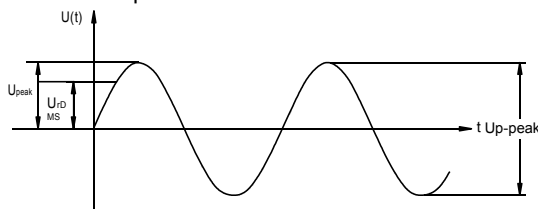
and the maximum number of times allowed is 1000.

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.

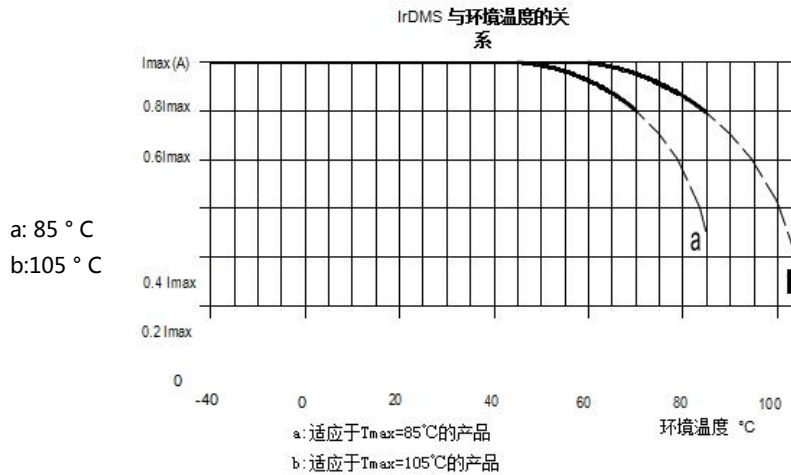
1.11 peak current I_{peak}

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.

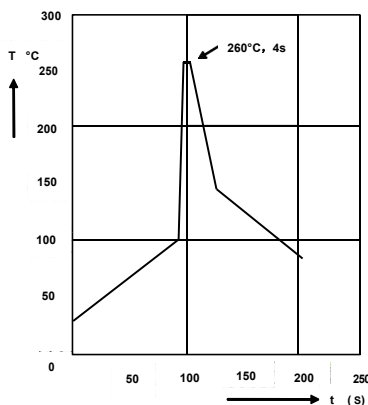
2.6 safety protection measures

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 ± 5 °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 mm², 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/-0.5mm
Protective plate	Heat absorption plate, (1.5 ± 0.5) 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:

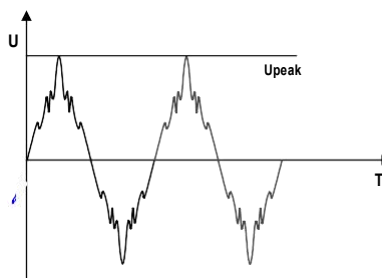
Repetitive surge voltage	Maximum duration
1.1 × Un	Working time totle 30%
1.15 × Un	30 min/d 5
1.2 × Un	min/d 1
1.3 × Un	min/d
1.5 × Un	100 DMS , No more than 1000 次

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

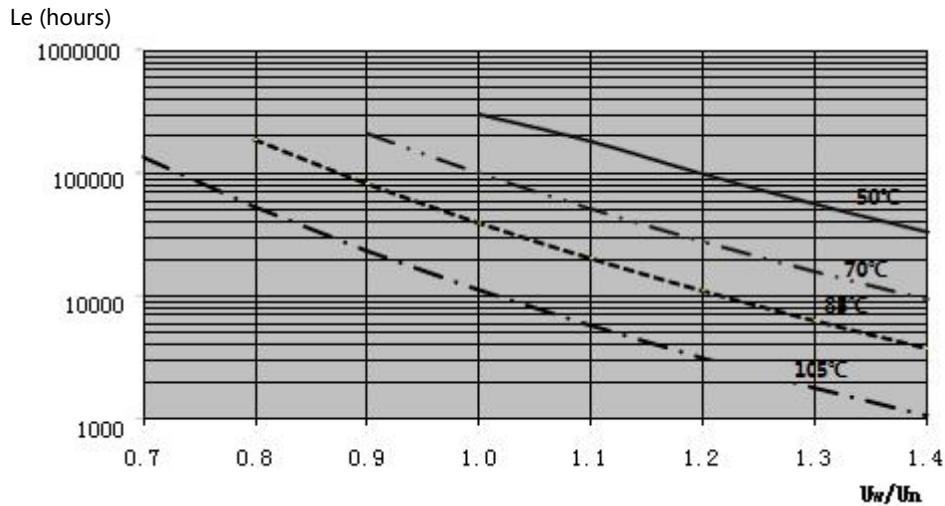
The standard for selecting the rated voltage UN of AC filter capacitor is not the effective voltage urdms, but the peak voltage formed by the superposition of various harmonics, which is calculated by instrument test or according to the harmonic data provided. In any case, the rated voltage of the capacitor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

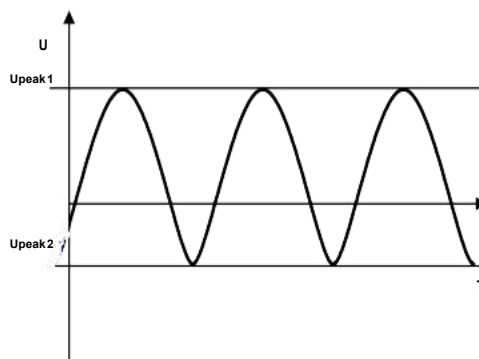


5.5 Life Declaration and invalidation

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, aluminum shell packaging, plastic support, resin filling (UL94 V-0)

Electrical characteristics

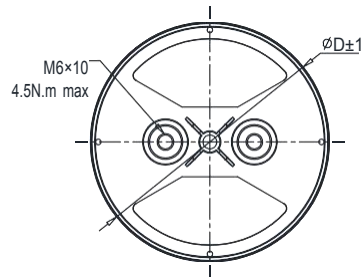
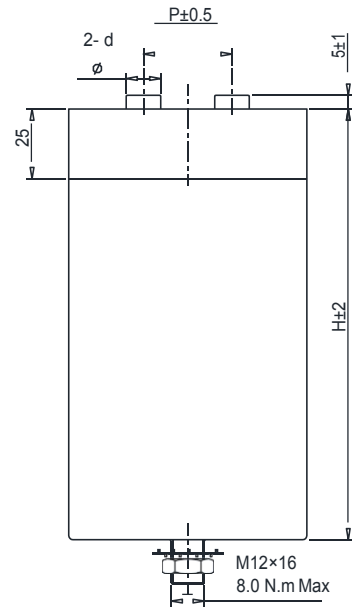
working temperature : - 40 ~ + 85 °C
 Capacity range : 18 至 2700μF
 Rated voltage : 900 ~ 4000 VDC
 Capacity deviation : ± 5% , ± 10%
 Loss factor : $\leq 3 \times 10^{-3}$ @ 100 Hz, 20±5°C
 life expectancy : 100,000 hour @ Un, 70°C (热点温度)
 Interelectrode withstand voltage : 1.5Un (DC) @ 10s, 20±5°C
 Polar shell withstand voltage : (1.5Un+1000)VAC, minimum 3000VAC (10s,50Hz)
 insulation resistance : (IR×Cn) 30000s (No more than 30GΩ), 100VDC (20±5°C), 1minute

Application

Wind power generation, solar inverter
 Electric vehicle motor drive
 Switching Mode Power Elevator.

Lead out size

D= 76, 86mm	D= 96mm	D= 116mm	D= 136mm
d= 12.5mm	d= 12.5mm	d= 14mm	d= 14mm
P= 32mm	P= 45mm	P= 50mm	P= 50mm



Carharacteristic parameter

ordering code	容量 (μF)	D (mm)	H (mm)	Ipeak (A)	IrDMS@45°C @10KHz (A)	ESR@1.0KHz (mΩ)	Ls (nH)	Rth (k/W)	Wn (Ws)	重量 (Kg)
Un 900VDC , Us 1350V , Ur 200V										
DHE-900-280-FS	280	76	95	2240	41	1.9	≤50	4.6	113	0.59
DHE-900-380-FSS	380	86	95	3040	47	1.8	≤50	3.9	154	0.73
DHE-900-390-FS	390	76	120	2340	41	2.1	≤60	4.1	158	0.71
DHE-900-450-FS	450	76	145	4500	58	1.2	≤45	3.7	182	0.88
DHE-900-520-FS	520	86	120	3120	47	1.9	≤60	3.5	211	0.88
DHE-900-570-FS	570	76	175	4560	60	1.3	≤50	3.3	231	1.03
DHE-900-600-FS	600	86	145	6000	64	1.1	≤45	3.2	243	1.09
DHE-900-630-FS	630	96	125	3780	53	1.8	≤60	3.0	255	1.14
DHE-900-700-FS	700	116	100	5600	61	1.6	≤50	2.6	284	1.36
DHE-900-750-FS	750	86	175	6000	66	1.2	≤50	2.9	304	1.29
DHE-900-780-FS	780	76	225	4680	62	1.4	≤60	2.9	316	1.28
DHE-900-850-FS	850	96	150	8500	70	1.1	≤45	2.7	344	1.40
DHE-900-1000-FS2	1000	96	180	8000	73	1.1	≤50	2.5	405	1.64
DHE-900-1000-FS1	1000	136	100	8000	70	1.5	≤50	2.1	405	1.83
DHE-900-1000-FS	1000	116	125	6000	63	1.6	≤60	2.3	405	1.63
DHE-900-1050-FS	1050	86	225	6300	69	1.3	≤60	2.5	425	1.60
DHE-900-1050-FS1	1050	116	150	10500	81	1.1	≤45	2.1	425	2.05
DHE-900-1200-FS1	1200	96	230	7200	75	1.2	≤60	2.2	486	2.06
DHE-900-1300-FS	1300	136	125	7800	72	1.6	≤60	1.9	527	2.24
DHE-900-1450-FS	1450	116	180	11600	84	1.1	≤50	2.0	587	2.37
DHE-900-1500-FS	1500	136	150	15000	91	1.0	≤45	1.7	608	2.77
DHE-900-1900-FS	1900	136	180	15200	94	1.0	≤50	1.6	770	3.25
DHE-900-2000-FS	2000	116	230	12000	88	1.1	≤60	1.7	810	2.93
DHE-900-2700-FS	2700	136	230	16200	99	1.1	≤60	1.4	1094	4.02

Characteristic parameter

ordering code	容量 (μ F)	D (mm)	H (mm)	I _{peak} (A)	I _{rDMS@45°C} @10KHz (A)	ESR@1.0KHz (m Ω)	L _s (nH)	R _{th} (k/W)	W _n (Ws)	重量 (Kg)
Un 1100VDC , Us 1650V , Ur 250V										
DHE-1100-180-FS	180	76	95	1440	40	2.1	≤50	4.6	109	0.58
DHE-1100-230-FS	230	86	95	1840	45	1.9	≤50	3.9	139	0.73
DHE-1100-250-FS	250	76	120	1500	40	2.3	≤60	4.1	151	0.70
DHE-1100-280-FS	280	76	145	2800	56	1.3	≤45	3.7	169	0.88
DHE-1100-300-FS	300	96	100	2400	51	1.8	≤50	3.3	182	0.94
DHE-1100-330-FS	330	86	120	1980	45	2.1	≤60	3.5	200	0.88
DHE-1100-350-FS	350	76	175	2800	58	1.4	≤50	3.3	212	1.03
DHE-1100-400-FS1	400	96	125	2400	51	1.9	≤60	3.0	242	1.14
DHE-1100-400-FS	400	86	145	4000	63	1.2	≤45	3.2	242	1.09
DHE-1100-420-FSL	420	86	136	1974	40	2.1	≤60	3.3	254	0.97
DHE-1100-450-FS	450	116	100	3600	60	1.6	≤50	2.6	272	1.36
DHE-1100-460-FS	460	96	150	4600	69	1.1	≤45	2.7	278	1.40
DHE-1100-480-FS	480	76	225	2880	59	1.5	≤60	2.9	290	1.29
DHE-1100-500-FS	500	86	175	4000	65	1.2	≤50	2.9	303	1.28
DHE-1100-600-FS	600	96	180	4800	71	1.2	≤50	2.5	363	1.64
DHE-1100-630-FS	630	136	100	5040	69	1.5	≤50	2.1	381	1.83
DHE-1100-650-FS	650	116	125	3900	62	1.7	≤60	2.3	393	1.62
DHE-1100-680-FS	680	86	225	4080	67	1.3	≤60	2.5	411	1.60
DHE-1100-730-FS	730	116	150	7300	81	1.1	≤45	2.1	442	2.02
DHE-1100-800-FS	800	96	230	4800	74	1.3	≤60	2.2	484	2.04
DHE-1100-900-FS	900	136	125	5400	71	1.6	≤60	1.9	545	2.21
DHE-1100-920-FS	920	116	180	7360	83	1.1	≤50	2.0	557	2.36
DHE-1100-1000-FS	1000	136	150	10000	91	1.0	≤45	1.7	605	2.75
DHE-1100-1200-FS	1200	136	180	9600	93	1.1	≤50	1.6	726	3.25
DHE-1100-1250-FS	1250	116	230	7500	87	1.2	≤60	1.7	756	2.93
DHE-1100-1700-FS	1700	136	230	10200	98	1.1	≤60	1.4	1029	4.02
Un 1200VDC , Us 1800V , Ur 275V										
DHE-1200-150-FS	150	76	95	1200	39	2.1	≤50	4.6	108	0.57
DHE-1200-200-FS	200	86	95	1600	45	1.9	≤50	3.9	144	0.72
DHE-1200-220-FS	220	76	120	1320	39	2.4	≤60	4.1	158	0.70
DHE-1200-240-FS	240	76	145	2400	56	1.3	≤45	3.7	173	0.87
DHE-1200-250-FS	250	86	125	3000	61	1.2	≤40	3.4	180	0.97
DHE-1200-270-FS	270	86	120	1620	45	2.1	≤60	3.5	194	0.87
DHE-1200-300-FS	300	76	175	2400	57	1.4	≤50	3.3	216	1.02
DHE-1200-310-FS	310	86	145	3100	63	1.2	≤45	3.2	223	1.08
DHE-1200-380-FS	380	116	100	3040	60	1.6	≤50	2.6	274	1.34
DHE-1200-380-FS1	380	96	150	3800	69	1.2	≤45	2.7	274	1.39
DHE-1200-400-FS	400	76	225	2400	59	1.5	≤60	2.9	288	1.27
DHE-1200-420-FS	420	86	175	3360	64	1.3	≤50	2.9	302	1.27
DHE-1200-470-FS	470	86	225	2820	65	1.4	≤60	2.5	338	1.62
DHE-1200-500-FS1	500	116	125	3000	61	1.8	≤60	2.3	360	1.62
DHE-1200-500-FS2	500	96	180	4000	71	1.2	≤50	2.5	360	1.61
DHE-1200-530-FS	530	136	100	4240	69	1.5	≤50	2.1	382	1.81
DHE-1200-550-FS	550	116	150	5500	80	1.1	≤45	2.1	396	2.01
DHE-1200-560-FS	560	86	225	3360	66	1.4	≤60	2.5	403	1.59
DHE-1200-680-FS1	680	96	230	4080	74	1.3	≤60	2.2	490	2.00
DHE-1200-680-FS	680	116	180	5440	82	1.1	≤50	2.0	490	2.37
DHE-1200-730-FS	730	136	125	4380	70	1.6	≤60	1.9	526	2.18
DHE-1200-850-FS	850	136	150	8500	91	1.0	≤45	1.7	612	2.71
DHE-1200-950-FS	950	136	180	7600	93	1.1	≤50	1.6	684	3.23
DHE-1200-1000-FS	1000	116	230	6000	86	1.2	≤60	1.7	720	2.91
DHE-1200-1200-FS	1200	136	230	7200	96	1.1	≤60	1.4	864	4.07

Characteristic parameter

ordering code	容量 (μ F)	D (mm)	H (mm)	I _{peak} (A)	I _{rDMS@45°C} @10KHz (A)	ESR@1.0KHz (m Ω)	L _s (nH)	R _{th} (k/W)	W _n (Ws)	重量 (Kg)
Un 2000VDC , Us 3000V , Ur 400V										
DHE-2000-55-FS	55	76	95	440	35	2.7	≤50	4.6	110	0.58
DHE-2000-75-FS1	75	86	95	600	41	2.3	≤50	3.9	150	0.72
DHE-2000-75-FS	75	76	120	450	34	3.2	≤60	4.1	150	0.70
DHE-2000-85-FS	85	76	145	850	51	1.5	≤45	3.7	170	0.88
DHE-2000-90-FS	90	96	100	720	46	2.2	≤50	3.3	180	0.93
DHE-2000-100-FS	100	86	120	600	40	2.7	≤60	3.5	200	0.87
DHE-2000-110-FS	110	76	175	880	52	1.7	≤50	3.3	220	1.03
DHE-2000-110-FS1	110	86	145	1100	58	1.4	≤45	3.2	220	1.10
DHE-2000-125-FS	125	96	125	750	45	2.4	≤60	3.0	250	1.13
DHE-2000-140-FS	140	116	100	1120	56	1.9	≤50	2.6	280	1.35
DHE-2000-140-FS1	140	96	150	1400	65	1.3	≤45	2.7	280	1.40
DHE-2000-150-FS	150	86	175	1200	60	1.5	≤50	2.9	300	1.28
DHE-2000-150-FS1	150	76	225	900	53	1.9	≤60	2.9	300	1.28
DHE-2000-190-FS	190	116	125	1140	56	2.0	≤60	2.3	380	1.63
DHE-2000-190-FS1	190	96	180	1520	67	1.4	≤50	2.5	380	1.62
DHE-2000-200-FS1	200	136	100	1600	66	1.7	≤50	2.1	400	1.82
DHE-2000-200-FS	200	86	225	1200	60	1.7	≤60	2.5	400	1.60
DHE-2000-220-FS	220	116	150	2200	77	1.2	≤45	2.1	440	2.01
DHE-2000-250-FS	250	96	230	1500	68	1.5	≤60	2.2	500	2.02
DHE-2000-275-FS	275	136	125	1650	66	1.8	≤60	1.9	550	2.20
DHE-2000-280-FS	280	116	180	2240	79	1.2	≤50	2.0	560	2.34
DHE-2000-310-FS	310	136	150	3100	88	1.1	≤45	1.7	620	2.74
DHE-2000-380-FS	380	116	230	2280	81	1.3	≤60	1.7	760	2.92
DHE-2000-400-FS	400	136	180	3200	90	1.1	≤50	1.6	800	3.20
DHE-2000-540-FS	540	136	230	3240	93	1.2	≤60	1.4	1080	3.98
Un 3000VDC , Us 4500V , Ur 700V										
DHE-3000-35-FS	35	76	145	350	33	3.8	≤45	3.7	158	0.87
DHE-3000-39-FS	39	76	175	312	31	4.6	≤50	3.3	176	1.04
DHE-3000-47-FS	47	86	145	470	37	3.4	≤45	3.2	212	1.09
DHE-3000-60-FS2	60	96	150	600	42	3.1	≤45	2.7	270	1.39
DHE-3000-60-FS1	60	86	175	480	38	3.7	≤50	2.9	270	1.28
DHE-3000-60-FS	60	76	225	360	32	5.0	≤60	2.9	270	1.28
DHE-3000-75-FS	75	96	180	600	42	3.4	≤50	2.5	338	1.63
DHE-3000-82-FS	82	86	225	492	38	4.2	≤60	2.5	369	1.59
DHE-3000-92-FS	92	116	150	920	51	2.7	≤45	2.1	414	2.01
DHE-3000-100-FS1	100	96	230	600	43	3.8	≤60	2.2	450	2.04
DHE-3000-100-FS	100	116	180	800	50	3.0	≤50	2.0	450	2.39
DHE-3000-120-FS	120	116	180	960	52	2.8	≤50	2.0	540	2.33
DHE-3000-130-FS	130	136	150	1300	59	2.5	≤45	1.7	585	2.72
DHE-3000-150-FS	150	116	230	900	52	3.2	≤60	1.7	675	2.93
DHE-3000-160-FS	160	136	180	1280	59	2.6	≤50	1.6	720	3.21
DHE-3000-180-FS	180	136	230	1080	59	3.0	≤60	1.4	810	4.11
Un 3600VDC , Us 5400V , Ur 800V										
DHE-3600-22-FS	22	76	145	220	31	4.2	≤45	3.7	143	0.87
DHE-3600-28-FS	28	76	175	224	31	4.8	≤50	3.3	181	1.02
DHE-3600-30-FS	30	86	145	300	36	3.6	≤45	3.2	194	1.08
DHE-3600-36-FS	36	96	150	360	40	3.4	≤45	2.7	233	1.39
DHE-3600-38-FS	38	86	175	304	36	4.1	≤50	2.9	246	1.27
DHE-3600-38-FS1	38	76	225	228	30	5.7	≤60	2.9	246	1.27
DHE-3600-46-FS	46	96	180	368	40	3.7	≤50	2.5	298	1.63
DHE-3600-50-FS	50	86	225	300	35	4.8	≤60	2.5	324	1.59
DHE-3600-55-FS	55	116	150	550	49	2.9	≤45	2.1	356	2.01

ordering code	容量 (μ F)	D (mm)	H (mm)	I _{peak} (A)	IrDMS@45°C @10KHz (A)	ESR@1.0KHz (m Ω)	Ls (nH)	R _{th} (k/W)	Wn (Ws)	重量 (Kg)
DHE-3600-62-FS	62	96	230	372	40	4.3	≤ 60	2.2	402	2.02
DHE-3600-70-FS	70	116	180	560	49	3.1	≤ 50	2.0	454	2.34
DHE-3600-75-FS	75	136	150	750	57	2.7	≤ 45	1.7	486	2.74
DHE-3600-88-FS	88	116	230	528	49	3.6	≤ 60	1.7	570	2.94
DHE-3600-100-FS	100	136	180	800	58	2.8	≤ 50	1.6	648	3.18
DHE-3600-125-FS	125	136	230	750	58	3.1	≤ 60	1.4	810	4.01
Un 4000VDC , Us 6000V , Ur 900V										
DHE-4000-18-FS	18	76	145	180	30	4.6	≤ 45	3.7	144	0.86
DHE-4000-23-FS1	23	76	175	184	29	5.2	≤ 50	3.3	184	1.01
DHE-4000-23-FS	23	86	145	230	34	4.0	≤ 45	3.2	184	1.08
DHE-4000-30-FS2	30	96	150	300	39	3.5	≤ 45	2.7	240	1.37
DHE-4000-30-FS1	30	86	175	240	34	4.4	≤ 50	2.9	240	1.26
DHE-4000-30-FS	30	76	225	180	29	6.4	≤ 60	2.9	240	1.26
DHE-4000-38-FS	38	96	180	304	39	3.9	≤ 50	2.5	304	1.61
DHE-4000-40-FS	40	86	225	240	34	5.3	≤ 60	2.5	320	1.58
DHE-4000-45-FS	45	116	150	450	48	3.0	≤ 45	2.1	360	1.99
DHE-4000-50-FS	50	96	230	300	39	4.6	≤ 60	2.2	400	2.01
DHE-4000-55-FS	55	116	180	440	48	3.3	≤ 50	2.0	440	2.34
DHE-4000-65-FS	65	136	150	650	56	2.7	≤ 45	1.7	520	2.69
DHE-4000-70-FS	70	116	230	420	47	3.9	≤ 60	1.7	560	2.94
DHE-4000-82-FS	82	136	180	656	57	2.9	≤ 50	1.6	656	3.15
DHE-4000-100-FS	100	136	230	600	56	3.3	≤ 60	1.4	800	4.00