

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

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DMP Round aluminum shell three-phase 400-1400Vac.....	41
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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

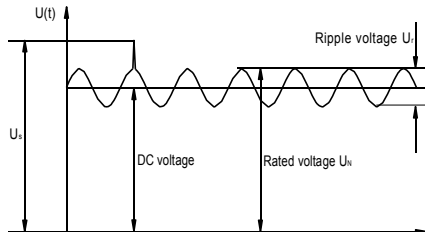
1. Technical terms and definitions

1.1 rated capacitance C_n

The test condition is 20 ± 5 ° 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,

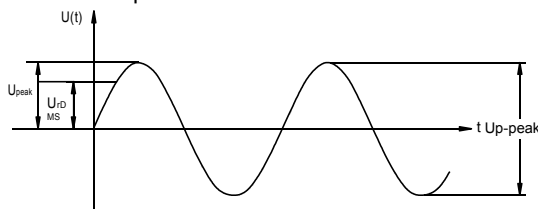
and the maximum number of times allowed is 1000.

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.

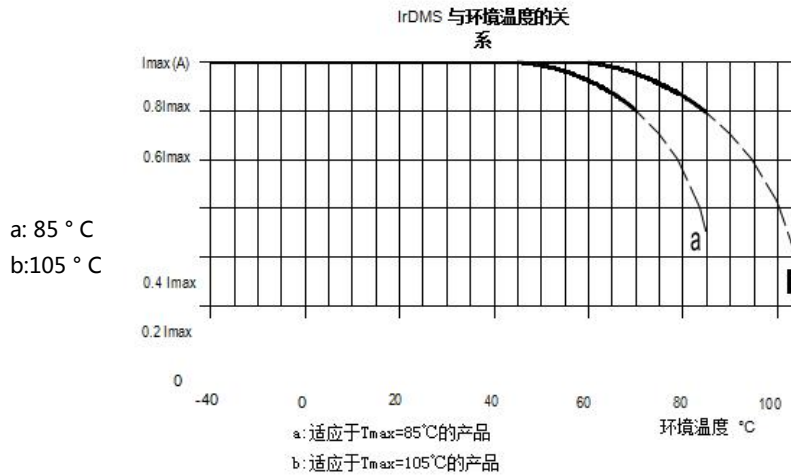
1.11 peak current I_{peak}

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

$$\tan \delta = 2\pi \times f \times C_n \times ESR$$

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 ≥ 12 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.

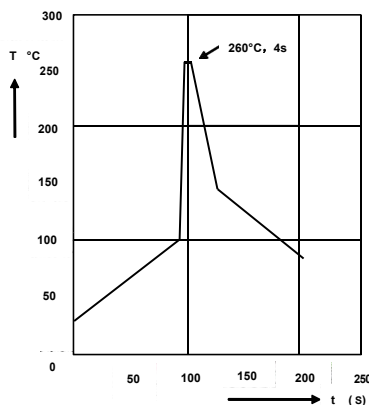
2.6 safety protection measures

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 ± 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:

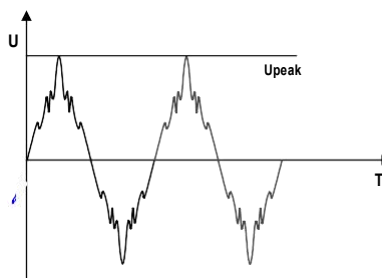
Repetitive surge voltage	Maximum duration
1.1 × Un	Working time totle 30%
1.15 × Un	30 min/d 5
1.2 × Un	min/d 1
1.3 × Un	min/d
1.5 × Un	100 DMS , No more than 1000 次

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

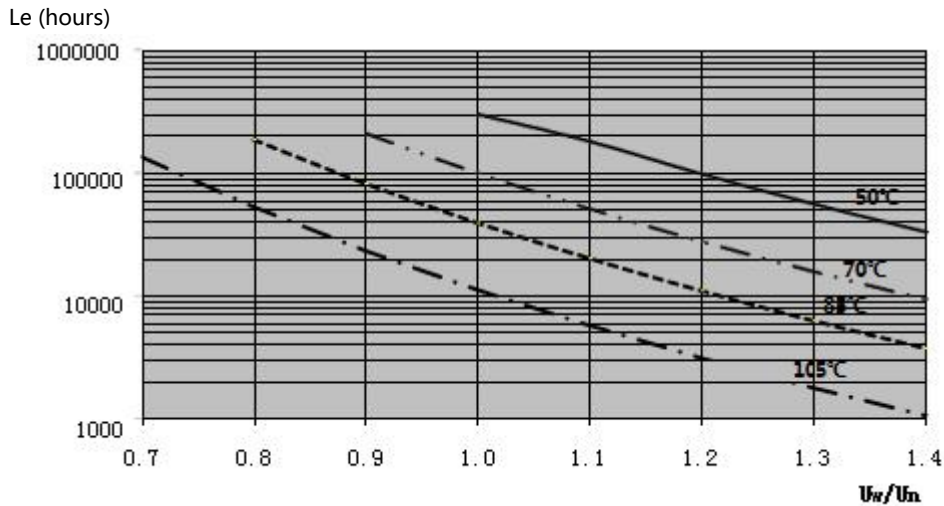
The standard for selecting the rated voltage UN of AC filter capacitor is not the effective voltage urdms, but the peak voltage formed by the superposition of various harmonics, which is calculated by instrument test or according to the harmonic data provided. In any case, the rated voltage of the capacitor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

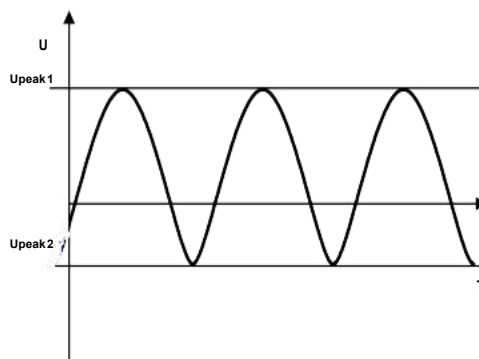


5.5 Life Declaration and invalidation

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

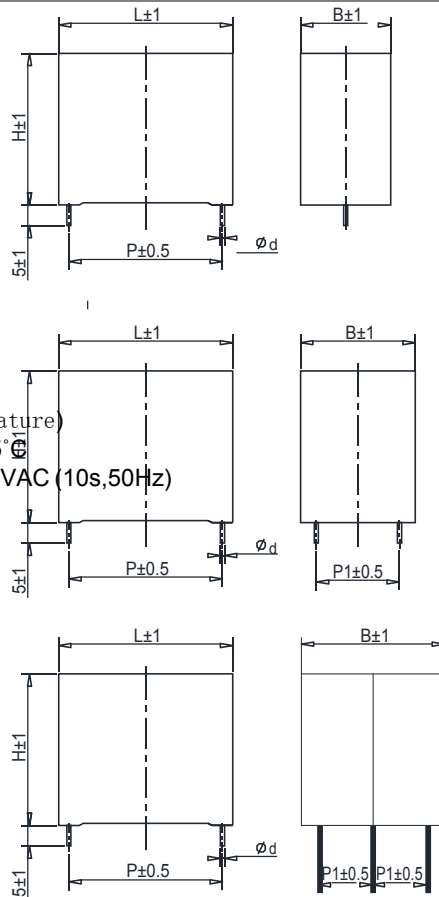
Reference standard : IEC 61071
 medium : Metallized polypropylene film
 structure : Dry non inductive structure, plastic shell packaging, resin filling (UL94 V-0)

Electrical characteristics

working temperature : - 40 ~ + 105 °C
 Capacity range : 6.0 ` 90μF
 Rated voltage : 700 ~ 1100VDC
 Capacity deviation : ± 5% , ± 10%
 Loss factor : ≤ 1.0×10⁻³ @ 100 Hz, 20±5°C
 Life expectancy : 100,000 hours @ Un, 70 °C(Hot spot temperature)
 Withstand voltage between poles : 1.5Un (DC) @ 10s, 20±5°C
 Withstand voltage of polar shel : (1.5Un+1000)VAC, minimum3000VAC (10s,50Hz)
 Insulation resistance : (IR×Cn) 30000s (no more than30GΩ), 100VDC (20±5°C) , 1 minute

Application

Solar inverter DC
 filter HEV, ev (OBC) motor
 drive switching power
 supply



Carharacteristic parameter

ordering code	CAP. (μF)	尺寸 (mm)						Du/dt (v/μs)	IrDMS@60° C @10KHz (A)	ESR@1.0KHz (m Ω)
		L	B	H	P	P1	d			
Un 700VDC , Us 1050V , Ur 200V										
DHA-700-15-2F	15	42.5	22	30	37.5		1.2	21	9	8.0
DHA-700-22-2F	22	42.5	28	37	37.5		1.2	21	11	5.6
DHA-700-22-4F	22	42.5	28	37	37.5	10.2	1.2	21	11	5.4
DHA-700-30-2F	30	42.5	30	45	37.5		1.2	21	12	4.2
DHA-700-30-4F	30	42.5	30	45	37.5	20.3	1.2	21	14	4.0
DHA-700-35-2F	35	42.5	33	45	37.5		1.2	21	12	3.7
DHA-700-35-4F	35	42.5	33	45	37.5	20.3	1.2	21	16	3.6
DHA-700-45-2G	45	57.5	30	45	52.5		1.2	14	12	5.4
DHA-700-45-4G	45	57.5	30	45	52.5	20.3	1.2	14	14	5.2
DHA-700-55-2G	55	57.5	35	50	52.5		1.2	14	12	4.5
DHA-700-55-4G	55	57.5	35	50	52.5	20.3	1.2	14	17	4.4
DHA-700-90-4G	90	57.5	42.5	56	52.5	20.3	1.2	14	22	3.8

Characteristic parameter

ordering code	CAP. (μF)	尺寸 (mm)						Du/dt ($\text{V}/\mu\text{s}$)	IrDMS@60° C @10KHz (A)	ESR@1.0KHz ($\text{m}\Omega$)
		L	B	H	P	P1	d			
Un 900VDC , Us 1350V , Ur 250V										
DHA-900-10-2F	10	42.5	22	30	37.5		1.2	30	8	9.5
DHA-900-15-2F	15	42.5	28	37	37.5		1.2	30	11	6.5
DHA-900-15-4F	15	42.5	28	37	37.5	10.2	1.2	30	11	6.0
DHA-900-20-2F	20	42.5	30	45	37.5		1.2	30	12	5.0
DHA-900-20-4F	20	42.5	30	45	37.5	20.3	1.2	30	13	4.5
DHA-900-22-2F	22	42.5	33	45	37.5		1.2	30	12	4.6
DHA-900-22-4F	22	42.5	33	45	37.5	20.3	1.2	30	14	4.1
DHA-900-30-2G	30	57.5	30	45	52.5		1.2	20	12	6.4
DHA-900-30-4G	30	57.5	30	45	52.5	20.3	1.2	20	13	5.9
DHA-900-40-2G	40	57.5	35	50	52.5		1.2	20	12	4.9
DHA-900-40-4G	40	57.5	35	50	52.5	20.3	1.2	20	17	4.4
DHA-900-55-4G	55	57.5	42.5	56	52.5	20.3	1.2	20	22	3.0
Un 1100VDC , Us 1650V , Ur 300V										
DHA-1100-6-2F	6	42.5	22	30	37.5		1.2	39	7	12.9
DHA-1100-10-2F	10	42.5	28	37	37.5		1.2	39	10	8.0
DHA-1100-10-4F	10	42.5	28	37	37.5	10.2	1.2	39	10	7.5
DHA-1100-14-2F	14	42.5	30	45	37.5		1.2	39	12	5.8
DHA-1100-14-4F	14	42.5	30	45	37.5	20.3	1.2	39	12	5.3
DHA-1100-15-2F	15	42.5	33	45	37.5		1.2	39	12	5.5
DHA-1100-15-4F	15	42.5	33	45	37.5	20.3	1.2	39	13	5.0
DHA-1100-22-2G	22	57.5	30	45	52.5		1.2	26	12	7.2
DHA-1100-22-4G	22	57.5	30	45	52.5	20.3	1.2	26	13	6.7
DHA-1100-25-2G	25	57.5	35	50	52.5		1.2	26	12	6.4
DHA-1100-25-4G	25	57.5	35	50	52.5	20.3	1.2	26	14	5.9
DHA-1100-40-4G	40	57.5	42.5	56	52.5	20.3	1.2	26	20	3.7

Product features

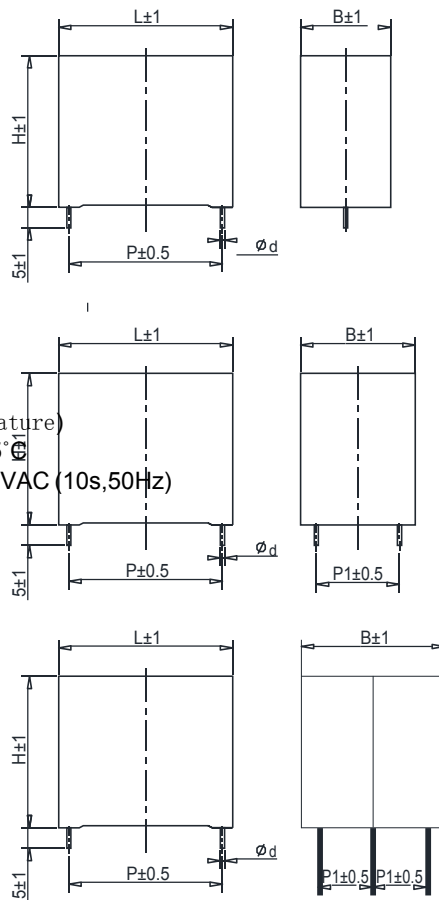
Reference standard : IEC 61071
 medium : Metallized polypropylene film
 structure : Dry non inductive structure, plastic shell
 packaging, resin filling (UL94 V-0)

Electrical characteristics

working temperature : -40 ~ +105 °C
 Capacity range : 1 ~ 145μF
 Rated voltage : 700 ~ 1100VDC
 Capacity deviation : ±5%, ±10%
 Loss factor : $\leq 1.0 \times 10^{-3}$ @ 100 Hz, 20±5°C
 Life expectancy : 100,000 hours @ Un, 70°C (Hot spot temperature)
 Withstand voltage between poles : 1.5Un (DC) @ 10s, 20±5°C
 Withstand voltage of polar shell : (1.5Un+1000)VAC, minimum 3000VAC (10s, 50Hz)
 Insulation resistance : (IR×Cn) 30000s (no more than 30GΩ),
 100VDC (20±5°C), 1 minute

Application

Solar inverter DC
 filter HEV, ev (OBC) motor
 drive switching power
 supply



Carcharacteristic parameter

ordering code	CAP. (μF)	尺寸 (mm)						Du/dt (v/μs)	IrDMS@60° C @10KHz (A)	ESR@1.0KHz (mΩ)
		L	B	H	P	P1	d			
Un 700VDC , Us 1050V , Ur 150V										
DHA-700-3.0-2VB1	3.0	31	9	18	27.5		0.8	30	4	25.8
DHA-700-4.0-2VB1	4.0	31	11	20	27.5		0.8	30	4	19.9
DHA-700-6.0-2VB1	6.0	31	13	22	27.5		0.8	30	5	13.8
DHA-700-8.0-2VB0	8.0	31	15	24.5	27.5		0.8	30	5	10.7
DHA-700-10-2VB1	10	31	17	28	27.5		0.8	30	5	8.8
DHA-700-15-2VB1	15	31	18	33	27.5		0.8	30	5	6.4
DHA-700-17-4VB1	17	31	22	31	27.5	10.2	0.8	30	10	5.6
DHA-700-22-4FB1	22	42.5	22	30	37.5	10.2	1.2	21	11	6.7
DHA-700-40-4FB1	40	42.5	28	37	37.5	10.2	1.2	21	16	4.2
DHA-700-50-4FB1	50	42.5	30	45	37.5	20.3	1.2	21	18	3.6
DHA-700-60-4FB0	60	42.5	33	45	37.5	20.3	1.2	21	20	3.2
DHA-700-80-4GB1	80	57.5	30	45	52.5	20.3	1.2	14	20	3.9
DHA-700-100-4GB1	100	57.5	35	50	52.5	20.3	1.2	14	23	3.4
DHA-700-145-4GB1	145	57.5	42.5	56	52.5	20.3	1.2	14	23	2.7
DHA-700-145-6GB1	145	57.5	42.5	56	52.5	10.2	1.2	14	27	2.9

Characteristic parameter

ordering code	容量 (μ F)	尺寸 (mm)						Du/dt (v/ μ s)	IrDMS@60° C @10KHz (A)	ESR@1.0KHz (m Ω)
		L	B	H	P	P1	d			
Un 800VDC , Us 1200V , Ur 175V										
DHA-800-2.0-2VB1	2.0	31	9	18	27.5		0.8	36	3	34.9
DHA-800-3.0-2VB1	3.0	31	11	20	27.5		0.8	36	4	24.0
DHA-800-4.0-2VB1	4.0	31	13	22	27.5		0.8	36	5	18.4
DHA-800-6.0-2VB1	6.0	31	15	24.5	27.5		0.8	36	5	12.8
DHA-800-8.0-2VB1	8.0	31	17	28	27.5		0.8	36	5	10.0
DHA-800-10-2VB1	10	31	18	33	27.5		0.8	36	5	8.2
DHA-800-12-4VB1	12	31	22	31	27.5	10.2	0.8	36	10	6.9
DHA-800-16-4FB1	16	42.5	22	30	37.5	10.2	1.2	28	10	8.0
DHA-800-25-4FB1	25	42.5	28	37	37.5	10.2	1.2	28	14	5.5
DHA-800-35-4FB1	35	42.5	30	45	37.5	20.3	1.2	28	17	4.3
DHA-800-42-4FB1	42	42.5	33	45	37.5	20.3	1.2	28	19	3.7
DHA-800-55-4GB1	55	57.5	30	45	52.5	20.3	1.2	16	18	4.7
DHA-800-75-4GB0	75	57.5	35	50	52.5	20.3	1.2	16	21	3.8
DHA-800-110-4GB0	110	57.5	42.5	56	52.5	20.3	1.2	16	23	2.9
DHA-800-110-6GB1	110	57.5	42.5	56	52.5	10.2	1.2	16	26	3.1
Un 900VDC , Us 1350V , Ur 200V										
DHA-900-1.5-2VB1	1.5	31	9	18	27.5		0.8	45	3	44.0
DHA-900-2.5-2VB1	2.5	31	11	20	27.5		0.8	45	4	27.3
DHA-900-3.3-2VB1	3.3	31	13	22	27.5		0.8	45	5	21.1
DHA-900-4.5-2VB1	4.5	31	15	24.5	27.5		0.8	45	5	15.9
DHA-900-6.0-2VB1	6.0	31	17	28	27.5		0.8	45	5	12.3
DHA-900-8.5-2VB1	8.5	31	18	33	27.5		0.8	45	5	9.1
DHA-900-10-4VB1	10	31	22	31	27.5	10.2	0.8	45	9	7.7
DHA-900-14-4FB1	14	42.5	22	30	37.5	10.2	1.2	32	10	8.5
DHA-900-25-4FB1	25	42.5	28	37	37.5	10.2	1.2	32	14	5.3
DHA-900-33-4FB1	33	42.5	30	45	37.5	20.3	1.2	32	17	4.3
DHA-900-35-4FB1	35	42.5	33	45	37.5	20.3	1.2	32	18	4.1
DHA-900-50-4GB1	50	57.5	30	45	52.5	20.3	1.2	20	18	4.8
DHA-900-65-4GB1	65	57.5	35	50	52.5	20.3	1.2	20	21	4.0
DHA-900-90-4GB1	90	57.5	42.5	56	52.5	20.3	1.2	20	23	3.2
DHA-900-90-6GB1	90	57.5	42.5	56	52.5	10.2	1.2	20	25	3.4
Un 1100VDC , Us 1650V , Ur 225V										
DHA-1100-1.2-2VB1	1.2	31	9	18	27.5		0.8	45	3	51.5
DHA-1100-2.0-2VB1	2.0	31	11	20	27.5		0.8	45	3	31.9
DHA-1100-2.5-2VB1	2.5	31	13	22	27.5		0.8	45	4	25.9
DHA-1100-3.5-2VB1	3.5	31	15	24.5	27.5		0.8	45	5	19.0
DHA-1100-5.0-2VB1	5.0	31	17	28	27.5		0.8	45	5	13.7
DHA-1100-6.0-2VB1	6.0	31	18	33	27.5		0.8	45	5	11.7
DHA-1100-6.0-4VB0	6.0	31	18	33	27.5	10.2	0.8	45	5	11.7
DHA-1100-7.5-4VB1	7.5	31	22	31	27.5	10.2	0.8	45	9	9.4
DHA-1100-10-4FB1	10	42.5	22	30	37.5	10.2	1.2	32	9	10.5
DHA-1100-18-4FB1	18	42.5	28	37	37.5	10.2	1.2	32	13	6.4
DHA-1100-22-4FB0	22	42.5	30	45	37.5	20.3	1.2	32	15	5.5
DHA-1100-25-4FB0	25	42.5	33	45	37.5	20.3	1.2	32	16	4.9
DHA-1100-35-4GB1	35	57.5	30	45	52.5	20.3	1.2	20	16	5.9
DHA-1100-50-4GB1	50	57.5	35	50	52.5	20.3	1.2	20	20	4.5
DHA-1100-65-4GB1	65	57.5	42.5	56	52.5	20.3	1.2	20	23	3.7

Carharacteristic parameter

ordering code	容量 (μ F)	尺寸 (mm)						Du/dt (v/ μ s)	IrDMS@60° C @10KHz (A)	ESR@1.0KHz (m Ω)
		L	B	H	P	P1	d			
Un 1200VDC , Us 1800V , Ur 250V										
DHA-1200-1.0-2VB1	1.0	31	9	18	27.5		0.8	50	2	58.5
DHA-1200-1.5-2VB1	1.5	31	11	20	27.5		0.8	50	3	39.9
DHA-1200-2.0-2VB1	2.0	31	13	22	27.5		0.8	50	4	30.4
DHA-1200-3.0-2VB1	3.0	31	15	24.5	27.5		0.8	50	5	20.9
DHA-1200-4.0-2VB1	4.0	31	17	28	27.5		0.8	50	5	16.0
DHA-1200-5.0-2VB1	5.0	31	18	33	27.5		0.8	50	5	13.1
DHA-1200-6.0-4VB1	6.0	31	22	31	27.5	10.2	0.8	50	8	11.0
DHA-1200-8.0-4FB1	8.0	42.5	22	30	37.5	10.2	1.2	38	8	12.2
DHA-1200-14-4FB1	14	42.5	28	37	37.5	10.2	1.2	38	12	7.5
DHA-1200-18-4FB1	18	42.5	30	45	37.5	20.3	1.2	38	14	6.1
DHA-1200-20-4FB1	20	42.5	33	45	37.5	20.3	1.2	38	15	5.6
DHA-1200-30-4GB1	30	57.5	30	45	52.5	20.3	1.2	30	16	6.2
DHA-1200-40-4GB1	40	57.5	35	50	52.5	20.3	1.2	30	19	5.0
DHA-1200-55-4GB1	55	57.5	42.5	56	52.5	20.3	1.2	30	23	3.9