

HK Film Capacitor Limited

About HK Film Capacitor Limited :

We specialize in designing and manufacturing **Power Electronic Capacitors** and **High Voltage Film Capacitors** for AC and DC voltage high power electronic applications.

Our engineers design various types of film/foil capacitors to suit various applications. Their jobs not only concentrate on the capacitor electrical parameters but also mechanical, mounting and electrical connection need. We support different connections and mounting options to increase your design flexibility.

Most of our Capacitors can meet high RMS Current and high Voltage at 105C temperature requirement.

Our mission and goal are to achieve customer satisfaction in terms of stable quality, design flexibility, lead-time reliability and competitive price. Quality is our prime consideration.

Dry Construction : Epoxy Resin with Plastic Enclosure

Advantage : Plastic Enclosure vs Metal Enclosure case :

- High Insulation Resistance
- High Insulation Voltage
- Ability to withstand vibration
- Flame Retardant - capacitor enclosure and epoxy resin - UL94-V0 grade
- Plastic Case can resist oxidation, acidic and alkaline corrosion
- Metal Enclosure Capacitors cannot withstand strong continuously vibration environment.
- Most Metal Enclosure Capacitors in the market have their temperature rating from +60C to +70C. However, our plastic enclosure capacitors can work at 105C.
- Smaller capacitor size and lighter weight
- Longer Service Life
- For more details, please visit the following link.

<https://filmcapacitor-st.com/techconsiderations.php?id=Plastic-Capacitors-versus-Oil-Impregnated-Metal-Case-Capacitors>

Electrical Characteristics :

- Support customized Capacitor according to your application need and meet your Capacitance, Voltage, Testing Voltage, Dissipation Factor, ESR, Size, RMS Current, Discharge Current Capacity, Operating Temperature, Operating Lifetime, Capacitor Mounting & Connection requirement.
- Support Temperature up to 105C requirement.

105C Power Electronic Polypropylene Film Capacitors :

- It is essential for Power Electronic Capacitors can withstand higher temperature.
- As Capacitor internal temperature will increase with Current.
- Higher temperature range means the capacitors can work longer and more stable.
- Most of our capacitors can be worked at 105C.

Electrical Connections :

We support capacitors with different electrical connection and mounting options to increase your design flexibility.

- Terminations can be solder tags, single or double quick terminal, Stiff wire, Flexible wire, Twin-core cable, Tin plated copper lead wire (Box type only), heavy duty screw nuts and bolts
- Stiff wire, Flexible wire : UL #1015, 105C, AWG# 16, 18, 20
- Wire and Cable with receptacle, terminal or even power connectors
- Terminal type : Ring, Y or Pin terminal with various size
- Screw Bolt and Screw Nut with various size for heavy duty requirement.
- for more details, please refer to the Capacitor Package Configuration selection in our website.

Other Options :

- Support capacitors with thermocouple integration.
The output temperature signal can be as one of the reference signals in the circuit to trigger other function.
- DC Blocking / Ultra-Low Leakage version on request

Brands :

HKFC

HK Film Capacitor

ST – mainly for small Dipped Epoxy film Capacitors



HKFC : Power Electronic Capacitors :

1. High AC Current Capacitors / Heavy Current Capacitors :

- 1.1. LC1-AN, LC2-AN and LC3-AN series p3
- 1.2. LC2-RNM and LC3-RNM series p8
- 1.3. LC1-BN, LC2-BN and LC3-BN series p10
- 1.4. Induction Heating Capacitors p11
LC1-BR, LC2-BR and LC3-BR series

2. High Voltage Film Capacitors :

- 2.1 High Voltage AC Power Capacitors p12
STHVA-AN

- 2.2 High Voltage Pulse Capacitors p14
STHVP-AN series

High Voltage Filter Capacitors

- 2.3 STHVF-AN : screw Nut at Capacitor both Ends p16
- 2.4 STHVF-A : Axial Lead at Capacitor both Ends p23

3. Snubber Capacitors :

- 3.1 GTO Snubber Capacitors p25
STG-A, STG-01A series

- 3.2 Snubber Capacitors p33
STP-01R series

- 3.3 High Voltage Snubber Capacitors p34
STP-01RNM, STP-01RBM series

- 3.4 High Voltage Snubber Capacitors p37
STP-01RFT, STP-01RAN, STP-01RFN,
STP-01RFB, STP-01RBC, STP-01RNC series

- 3.5.1 IGBT Snubber Capacitors p41
SMKP2 series

- 3.5.2 High Voltage IGBT Snubber Capacitors p43
SMKPx-N series

- 3.6 Snubber Capacitors – axial lead p45
High dv/dt axial lead Polypropylene Film
Capacitors for pulse and snubber application

- 3.7 Power RC Snubber Network p47
STRC series

4. Other Power Electronic Capacitors

- 4.1 AC / DC General Purpose Power Capacitors p54
ACF series
- 4.2 DC Pulse Current Capacitors / DC Filter Capacitors p59
DCF-03 and DCF-04 series
- 4.3 Energy Discharge Capacitors p59
Pulse Grade Capacitors
STP-02RM series (a smaller size version of STP-02R)
STP-02R series

Appendix :

- Capacitor Package Configurations and codes p62
- Electrical Terminal and Receptacle p66



1.1 High AC Current Capacitors / Heavy Current Capacitors / Resonant Capacitors :

LC1-AN / LC2-AN / LC3-AN series :

Applications :

High Continuous AC Current applications, High Frequency AC/DC Filter, Medium Frequency Power applications, Induction Heating/Melting Equipments, High Current Welding, Resonant Circuits, Tank Circuits, Motor Controls; Oscillating, Bypass and Coupling circuits.

Properties :

Doesn't need Water cooling
 Force Air Cooling can be useful at +105C but not a must
 High RMS Ripple Current with 100% duty
 Low ESR and ESL
 Low Thermal Resistance
 High continuous power with Lower Internal loss
 High Operating Temperature range up to +105C ranges
 Plastic Enclosure and Light Weight
 Flame Retardant UL94-V0 grade

Electrical Characteristics :

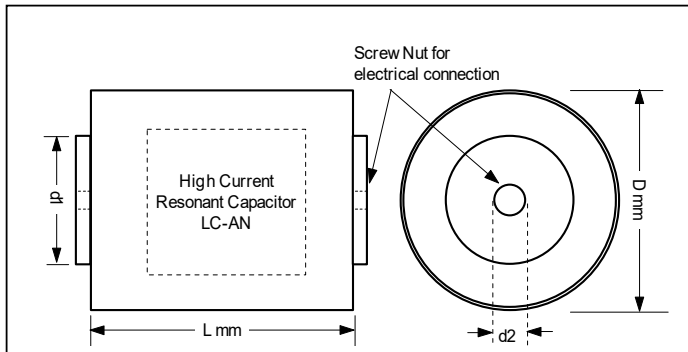
Rated Voltage : 125 – 1,320Vrms (Support higher voltage requirement)
 Capacitance range : 1uF – 100uF (can be customized)
 Ripple RMS Current up to 250A - All the listed Currents are for 100% duty.
 Reactive Power up to 80kVAR

Other Electrical Characteristics :

Capacitance Tolerance : +/-5%; +/-10%
 Operating Temperature : +70C / +85C / +90C / +105C
 Thermal Resistance R θ : refer to the table below

Thermocouple can be built-in, capacitor internal temperature can be measured. The output temperature signal can be used as one of the reference signals in the circuit and trigger other function.

Specifications and Size : LC2-AN / LC3-AN series :



LC3-AN 125Vrms

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +55C	R θ C/W +55C	Cont. Power KVAR +55C	ESR mohm 100khz 25C	Stray Inductance nH
LC3-AN256K125VR	25	65	64	40	2.1	5	1.5	30
LC3-AN306K125VR	30	65	64	45	1.8	5	1.4	30
LC3-AN406K125VR	40	65	64	50	1.8	6	1.1	30
LC3-AN506K125VR	50	65	64	50	1.9	6	1.1	30
LC3-AN606K125VR	60	65	64	60	1.5	7	0.9	30
LC3-AN706K125VR	70	90	64	70	1.2	8	0.8	30
LC3-AN806K125VR	80	90	64	85	0.9	10	0.8	30
LC3-AN906K125VR	90	90	64	90	0.9	11	0.7	30
LC3-AN107K125VR	100	90	64	100	0.9	12	0.6	30

LC3-AN 150Vrms

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +55C	R θ C/W +55C	Cont. Power KVAR +55C	ESR mohm 100khz 25C	Stray Inductance nH
LC3-AN256K150VR	25	65	64	40	2.1	6	1.5	30
LC3-AN306K150VR	30	65	64	43	1.9	6	1.4	30
LC3-AN406K150VR	40	65	64	50	1.6	7	1.3	30
LC3-AN506K150VR	50	90	64	65	1.1	10	1.1	30
LC3-AN606K150VR	60	90	64	75	1.0	11	0.9	30
LC3-AN706K150VR	70	90	64	90	0.9	13	0.7	30
LC3-AN806K150VR	80	90	64	100	0.9	15	0.6	30

In all circumstance, it is better to keep the actual capacitor Irms smaller than the listed Irms at the specific temperature.

LC3-AN 185Vrms

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +55C	Rθ C/W +55C	Cont. Power KVAR +55C	ESR mohm 100khz 25C	Stray Inductance nH
LC3-AN156K185VR	15	65	64	30	2.1	5	2.6	30
LC3-AN206K185VR	20	65	64	35	2.1	6	2.0	30
LC3-AN226K185VR	22	65	64	35	2.2	6	1.9	30
LC3-AN256K185VR	25	65	64	40	2.1	7	1.5	30
LC3-AN306K185VR	30	90	64	50	1.6	9	1.3	30
LC3-AN336K185VR	33	90	64	50	1.7	9	1.2	30
LC3-AN356K185VR	35	90	64	55	1.6	10	1.1	30
LC3-AN406K185VR	40	90	64	65	1.2	12	1.0	30
LC3-AN477K185VR	47	90	64	75	1.0	14	0.9	30

LC3-AN 250Vrms

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +55C	Rθ C/W +55C	Cont. Power KVAR +55C	ESR mohm 100khz 25C	Stray Inductance nH
LC3-AN156K250VR	15	65	64	30	2.1	7	2.6	30
LC3-AN186K250VR	18	90	64	35	2.0	9	2	30
LC3-AN206K250VR	20	90	64	40	2.2	10	1.5	30
LC3-AN226K250VR	22	90	64	45	2.1	11	1.2	30
LC3-AN256K250VR	25	90	64	55	1.8	14	0.9	30

LC2-AN 250Vrms

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +70C	Rθ C/W +70C	Cont. Power KVAR +70C	Cont. Irms +85C	Rθ C/W +85C	Cont. Power KVAR +85C	Cont. Irms +105C	Rθ C/W +105C	Cont. Power KVAR +105C	ESR mohm 100khz 25C	Stray Inductance nH
LC2-AN126K250VR-V1	12	90	63.5	60	0.5	15	55	0.6	14	40	1.4	10	2.6	10
LC2-AN156K250VR-V1	15	90	63.5	60	0.6	15	55	0.7	14	40	1.5	10	2.5	10
LC2-AN206K250VR-V1	20	90	81	60	0.5	15	55	0.6	14	40	1.4	10	2.6	12
LC2-AN226K250VR-V1	22	90	81	60	0.6	15	55	0.7	14	40	1.6	10	2.4	12
LC2-AN256K250VR-V1	25	90	99	60	0.5	15	55	0.6	14	40	1.4	10	2.7	15
LC2-AN306K250VR-V1	30	90	99	60	0.6	15	55	0.7	14	40	1.5	10	2.5	15
LC2-AN356K250VR-V1	35	90	99	60	0.6	15	55	0.8	14	40	1.7	10	2.2	15
LC2-AN406K250VR-V1	40	90	134	60	0.6	15	55	0.7	14	40	1.6	10	2.4	22
LC2-AN456K250VR-V1	45	90	134	70	0.5	17.5	65	0.5	16	45	1.3	11	2.2	22
LC2-AN506K250VR-V1	50	90	134	70	0.5	17.5	65	0.6	16	45	1.4	11	2.1	22

LC2-AN 250Vrms

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +70C	Rθ C/W +70C	Cont. Power KVAR +70C	Cont. Irms +85C	Rθ C/W +85C	Cont. Power KVAR +85C	Cont. Irms +105C	Rθ C/W +105C	Cont. Power KVAR +105C	ESR mohm 100khz 25C	Stray Inductance nH
LC2-RNM126K250VR-V2	12	65	180	70	0.58	18	65	0.68	16	50	1.14	13	1.4	15
LC2-RNM156K250VR-V2	15	65	215	90	0.47	23	80	0.59	20	60	1.05	15	1.06	15
LC2-RNM186K250VR-V2	18	65	225	110	0.29	28	90	0.43	23	75	0.62	19	1.15	15
LC2-RNM206K250VR-V2	20	65	255	110	0.31	28	90	0.47	23	75	0.68	19	1.05	15
LC2-RNM226K250VR-V2	22	90	170	130	0.25	33	100	0.42	25	90	0.52	23	0.95	15
LC2-RNM256K250VR-V2	25	90	200	150	0.21	38	130	0.28	33	100	0.47	25	0.85	15
LC2-RNM306K250VR-V2	30	90	230	180	0.16	45	150	0.24	38	120	0.37	30	0.75	15
LC2-RNM356K250VR-V2	35	90	250	200	0.14	50	150	0.25	38	120	0.40	30	0.7	15
LC2-RNM406K250VR-V2	40	90	260	250	0.10	63	200	0.15	50	150	0.27	38	0.65	15
LC2-RNM456K250VR-V2	45	90	295	250	0.10	63	200	0.15	50	150	0.27	38	0.65	15
LC2-AN476K250VR	47	90	295	250	0.10	63	200	0.15	50	150	0.27	38	0.65	15

LC2-AN 300Vrms

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +70C	Rθ C/W +70C	Cont. Power KVAR +70C	Cont. Irms +85C	Rθ C/W +85C	Cont. Power KVAR +85C	Cont. Irms +105C	Rθ C/W +105C	Cont. Power KVAR +105C	ESR mohm 100khz 25C	Stray Inductance nH
LC2-AN805K300VR	8	65	81	45	0.9	13.5	40	1.1	12	30	2.4	9	2.8	12
LC2-AN106K300VR	10	65	81	45	0.9	13.5	40	1.2	12	30	2.5	9	2.7	12
LC2-AN126K300VR	12	65	99	45	0.9	13.5	40	1.2	12	30	2.6	9	2.6	15
LC2-AN156K300VR	15	65	99	50	0.8	15	45	1.0	14	35	2.0	11	2.5	15
LC2-AN186K300VR	18	90	99	50	0.8	15	45	1.0	14	35	2.0	11	2.4	15
LC2-AN206K300VR	20	65	134	50	0.8	15	45	1.0	14	35	2.0	11	2.5	22
LC2-AN256K300VR	25	90	134	60	0.6	18	55	0.7	17	40	1.6	12	2.4	22
LC2-AN306K300VR	30	90	134	70	0.4	21	65	0.5	20	50	1.0	15	2.3	22
LC2-AN356K300VR	35	90	134	70	0.5	21	65	0.5	20	50	1.1	15	2.2	22
LC2-AN406K300VR	40	90	134	70	0.5	21	65	0.6	20	50	1.1	15	2.1	22

In all circumstance, it is better to keep the actual capacitor Irms smaller than the listed Irms at the specific temperature.

LC2-AN 325Vrms

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +70C	Rθ C/W +70C	Cont. Power KVAR +70C	Cont. Irms +85C	Rθ C/W +85C	Cont. Power KVAR +85C	Cont. Irms +105C	Rθ C/W +105C	Cont. Power KVAR +105C	ESR mohm 100khz 25C	Stray Inductance nH
LC2-AN106K325VR	10	65	185	70	0.49	23	60	0.67	20	50	0.97	16	1.65	15
LC2-AN126K325VR	12	65	220	80	0.43	26	70	0.56	23	55	0.91	18	1.45	15
LC2-AN156K325VR	15	65	260	100	0.30	33	90	0.37	29	70	0.60	23	1.35	15
LC2-AN186K325VR	18	90	180	120	0.23	39	100	0.33	33	80	0.52	26	1.2	15
LC2-AN206K325VR	20	90	185	130	0.22	42	110	0.30	36	90	0.45	29	1.1	15
LC2-AN226K325VR	22	90	220	150	0.19	49	120	0.29	39	100	0.42	33	0.95	15
LC2-AN256K325VR	25	90	250	180	0.15	59	150	0.21	49	120	0.33	39	0.85	15
LC2-AN306K325VR	30	90	260	200	0.13	65	180	0.16	59	130	0.32	42	0.75	15
LC2-AN356K325VR	35	90	295	250	0.09	81	200	0.14	65	150	0.25	49	0.7	15

LC3-AN 360Vrms

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +55C	Rθ C/W +55C	Cont. Power KVAR +55C	Cont. Irms +85C	Stray Inductance nH
LC3-AN405K360VR	4	65	60	50	1.3	18	40	25
LC3-AN505K360VR	5	90	60	60	1.1	21	45	25
LC3-AN605K360VR	6	90	60	80	0.8	29	55	25
LC3-AN705K360VR	7	90	60	90	0.8	32	65	25
LC3-AN805K360VR	8	90	60	100	0.8	36	75	25

LC2-AN 360Vrms

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +70C	Rθ C/W +70C	Cont. Power KVAR +70C	Cont. Irms +85C	Rθ C/W +85C	Cont. Power KVAR +85C	Cont. Irms +105C	Rθ C/W +105C	Cont. Power KVAR +105C	ESR mohm 100khz 25C	Stray Inductance nH
LC2-AN605K360VR-V1	6	65	185	60	0.67	22	50	0.97	18	40	1.52	14	1.65	15
LC2-AN805K360VR-V1	8	65	225	80	0.43	29	65	0.65	23	45	1.36	16	1.45	15
LC2-AN106K360VR-V1	10	90	155	100	0.32	36	70	0.65	25	55	1.06	20	1.25	15
LC2-AN126K360VR-V1	12	90	185	120	0.25	43	100	0.36	36	80	0.57	29	1.1	15
LC2-AN156K360VR-V1	15	90	220	150	0.19	54	120	0.29	43	100	0.42	36	0.95	15
LC2-AN206K360VR-V1	20	90	270	180	0.15	65	150	0.21	54	120	0.33	43	0.85	15

LC2-AN 360Vrms

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +70C	Rθ C/W +70C	Cont. Power KVAR +70C	Cont. Irms +85C	Rθ C/W +85C	Cont. Power KVAR +85C	Cont. Irms +105C	Rθ C/W +105C	Cont. Power KVAR +105C	ESR mohm 100khz 25C	Stray Inductance nH
LC2-AN605K360VR-V2	6	65	81	45	0.9	16.2	40	1.2	14	30	2.5	11	2.7	12
LC2-AN805K360VR-V2	8	90	81	55	0.7	19.8	50	0.8	18	40	1.5	14	2.5	12
LC2-AN106K360VR-V2	10	90	81	70	0.5	25.2	65	0.5	23	55	0.9	20	2.2	12
LC2-AN126K360VR-V2	12	90	99	70	0.5	25.2	65	0.5	23	55	0.9	20	2.2	15
LC2-AN156K360VR-V2	15	90	134	50	0.8	18.0	45	1.0	16	35	2.0	13	2.4	22
LC2-AN186K360VR	18	90	134	55	0.7	19.8	50	0.9	18	40	1.6	14	2.3	22
LC2-AN206K360VR-V2	20	90	134	65	0.5	23.4	60	0.6	22	45	1.3	16	2.2	22
LC2-AN226K360VR	22	90	134	70	0.5	25.2	65	0.6	23	50	1.1	18	2.1	22
LC2-AN256K360VR	25	90	134	70	0.5	25.2	65	0.6	23	50	1.3	18	1.9	22

LC2-AN 400Vrms

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +70C	Rθ C/W +70C	Cont. Power KVAR +70C	Cont. Irms +85C	Rθ C/W +85C	Cont. Power KVAR +85C	Cont. Irms +105C	Rθ C/W +105C	Cont. Power KVAR +105C	ESR mohm 100khz 25C	Stray Inductance nH
LC2-AN405K400VR	4	65	81	40	1.2	16	30	2.1	12	20	5.7	8	2.7	12
LC2-AN505K400VR	5	90	81	40	1.3	16	30	2.2	12	20	6.0	8	2.5	12
LC2-AN605K400VR	6	65	99	40	1.2	16	30	2.1	12	20	5.7	8	2.7	15
LC2-AN805K400VR	8	90	99	55	0.7	22	45	1.0	18	35	2.0	14	2.4	15
LC2-AN106K400VR	10	90	99	70	0.5	28	60	0.6	24	50	1.1	20	2.2	15
LC2-AN126K400VR	12	90	134	55	0.7	22	45	1.0	18	35	2.0	14	2.4	22
LC2-AN156K400VR	15	90	134	70	0.5	28	60	0.7	24	50	1.1	20	2.1	22

LC2-AN 415Vrms

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +70C	Rθ C/W +70C	Cont. Power KVAR +70C	Cont. Irms +85C	Rθ C/W +85C	Cont. Power KVAR +85C	Cont. Irms +105C	Rθ C/W +105C	Cont. Power KVAR +105C	ESR mohm 100khz 25C	Stray Inductance nH
LC2-AN305K415VR	3	65	150	40	1.19	17	35	1.55	15	25	3.05	10	2.10	15
LC2-AN405K415VR	4	65	185	50	0.89	21	40	1.39	17	30	2.47	12	1.8	15
LC2-AN505K415VR	5	65	220	60	0.65	25	50	0.94	21	40	1.47	17	1.7	15
LC2-AN605K415VR	6	65	260	70	0.54	29	60	0.74	25	50	1.07	21	1.5	15
LC2-AN805K415VR	8	90	185	100	0.29	42	80	0.45	33	65	0.68	27	1.4	15
LC2-AN106K415VR	10	90	220	120	0.23	50	100	0.33	42	80	0.52	33	1.2	15
LC2-AN126K415VR	12	90	260	150	0.16	62	120	0.25	50	100	0.36	42	1.1	15

In all circumstance, it is better to keep the actual capacitor Irms smaller than the listed Irms at the specific temperature.

LC2-AN 440Vrms

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +70C	Rθ C/W +70C	Cont. Power KVAR +70C	Cont. Irms +85C	Rθ C/W +85C	Cont. Power KVAR +85C	Cont. Irms +105C	Rθ C/W +105C	Cont. Power KVAR +105C	ESR mohm 100khz 25C	Stray Inductance nH
LC2-AN405K440VR	4	65	99	35	1.5	15.4	30	2.1	13	20	5.6	9	2.7	15
LC2-AN505K440VR	5	90	99	40	1.3	17.6	35	1.6	15	25	3.8	11	2.5	15
LC2-AN605K440VR	6	90	99	45	1.0	19.8	40	1.3	18	30	2.8	13	2.4	15
LC2-AN805K440VR	8	90	134	45	1.0	19.8	40	1.3	18	30	2.8	13	2.4	22
LC2-AN106K440VR	10	90	134	55	0.8	24.2	50	0.9	22	40	1.7	18	2.2	22
LC2-AN126K440VR	12	90	134	55	0.8	24.2	50	1.0	22	40	1.8	18	2.1	22

LC3-AN 450Vrms

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +55C	Rθ C/W +55C	Cont. Power KVAR +55C	ESR mohm 100khz 25C	Stray Inductance nH
LC3-AN255K450VR	2.5	65	60	40	1.0	18	3.1	25
LC3-AN305K450VR	3	65	60	45	1.1	20	2.2	25
LC3-AN405K450VR	4	90	60	65	0.9	29	1.3	25
LC3-AN505K450VR	5	90	60	80	0.9	36	0.9	25

LC2-AN 450Vrms

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +70C	Rθ C/W +70C	Cont. Power KVAR +70C	Cont. Irms +85C	Rθ C/W +85C	Cont. Power KVAR +85C	Cont. Irms +105C	Rθ C/W +105C	Cont. Power KVAR +105C	ESR mohm 100khz 25C	Stray Inductance nH
LC2-AN305K450VR	3	65	230	45	0.86	20	40	1.09	18	30	1.93	14	2.30	15
LC2-AN405K450VR	4	65	295	60	0.53	27	50	0.76	23	40	1.19	18	2.1	15
LC2-AN505K450VR	5	90	180	70	0.44	32	60	0.60	27	50	0.86	23	1.85	15
LC2-AN605K450VR	6	90	210	80	0.38	36	70	0.49	32	60	0.67	27	1.65	15
LC2-AN805K450VR	8	90	250	100	0.27	45	85	0.37	38	70	0.54	32	1.5	15

LC3-AN 550Vrms

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +55C	Rθ C/W +55C	Cont. Power KVAR +55C	ESR mohm 100khz 25C	Stray Inductance nH
LC3-AN155K550VR	1.5	65	60	30	1.8	16	3.1	25
LC3-AN205K550VR	2	65	60	40	1.1	22	2.9	25
LC3-AN255K550VR	2.5	90	60	50	1.2	27	1.7	25
LC3-AN305K550VR	3	90	60	60	1.3	33	1.1	25
LC3-AN355K550VR	3.5	90	60	70	1.1	38	1.0	25

LC2-AN 720Vrms

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +70C	Rθ C/W +70C	Cont. Power KVAR +70C	Cont. Irms +85C	Rθ C/W +85C	Cont. Power KVAR +85C	Cont. Irms +105C	Rθ C/W +105C	Cont. Power KVAR +105C	ESR mohm 100khz 25C	Stray Inductance nH
LC2-AN405K720VR	4	90	153	50	0.8	36	40	1.3	29	30	2.8	22	2.4	17
LC2-AN505K720VR	5	90	153	65	0.5	46.8	55	0.8	40	45	1.3	32	2.2	17
LC2-AN605K720VR	6	90	190	65	0.6	46.8	55	0.8	40	45	1.4	32	2.1	20
LC2-AN805K720VR	8	90	260	45	1.0	32.4	35	1.6	25	25	3.8	18	2.5	33
LC2-AN106K720VR	10	90	260	60	0.6	43.2	50	0.9	36	40	1.6	29	2.3	33
LC2-AN126K720VR	12	90	260	70	0.5	50.4	60	0.7	43	50	1.3	36	1.9	33

LC3-AN 750Vrms

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +55C	Rθ C/W +55C	Cont. Power KVAR +55C	ESR mohm 100khz 25C	Stray Inductance nH
LC3-AN105K750VR	1	65	60	25	1.5	19	5.5	25
LC3-AN125K750VR	1.2	90	60	30	1.3	22	4.2	25
LC3-AN155K750VR	1.5	90	60	40	1.1	30	2.9	25
LC3-AN185K750VR	1.8	90	60	45	1.5	34	1.7	25
LC3-AN205K750VR	2	90	60	45	1.6	34	1.5	25

LC2-AN 800Vrms

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +70C	Rθ C/W +70C	Cont. Power KVAR +70C	Cont. Irms +85C	Rθ C/W +85C	Cont. Power KVAR +85C	Cont. Irms +105C	Rθ C/W +105C	Cont. Power KVAR +105C	ESR mohm 100khz 25C	Stray Inductance nH
LC2-AN255K800VR	2.5	52	231	40	1.1	32	35	1.5	28	25	3.4	20	2.8	33
LC2-AN305K800VR	3	56	231	50	0.8	40	40	1.2	32	30	2.6	24	2.6	33
LC2-AN405K800VR	4	50	231	50	0.7	40	40	1.1	32	30	2.3	24	2.9	33
LC2-AN505K800VR	5	56	231	60	0.5	48	50	0.8	40	40	1.4	32	2.6	33
LC2-AN605K800VR	6	62	231	70	0.4	56	60	0.6	48	50	1.0	40	2.3	33
LC2-AN805K800VR	8	72	231	70	0.5	56	60	0.7	48	50	1.1	40	2.1	33

In all circumstance, it is better to keep the actual capacitor Irms smaller than the listed Irms at the specific temperature.

LC2-AN 1000Vrms

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +70C	Rθ C/W +70C	Cont. Power KVAR +70C	Cont. Irms +85C	Rθ C/W +85C	Cont. Power KVAR +85C	Cont. Irms +105C	Rθ C/W +105C	Cont. Power KVAR +105C	ESR mohm 100khz 25C	Stray Inductance nH
LC2-AN205K1000VR	2	90	280	40	1.2	40	30	2.1	30	22	4.8	22	2.6	33
LC2-AN255K1000VR	2.5	90	280	40	1.2	40	30	2.1	30	22	4.6	22	2.7	33
LC2-AN305K1000VR	3	90	280	50	0.8	50	40	1.2	40	25	3.7	25	2.6	33
LC2-AN405K1000VR	4	90	280	60	0.6	60	50	0.9	50	40	1.6	40	2.3	33
LC2-AN505K1000VR	5	90	280	70	0.5	70	60	0.7	60	45	1.4	45	2.1	33

LC2-AN 1200Vrms

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +70C	Rθ C/W +70C	Cont. Power KVAR +70C	Cont. Irms +85C	Rθ C/W +85C	Cont. Power KVAR +85C	Cont. Irms +105C	Rθ C/W +105C	Cont. Power KVAR +105C	ESR mohm 100khz 25C	Stray Inductance nH
LC2-AN155K1200VR-V1	1.5	90	280	35	1.6	42	30	2.2	36	20	6.0	24	2.5	33
LC2-AN155K1200VR-V2	1.5	65	280	30	2.2	36	25	3.2	30	18	7.4	22	2.5	33
LC2-AN205K1200VR-V1	2	90	280	50	0.9	60	40	1.4	48	25	4.2	30	2.3	33
LC2-AN205K1200VR-V2	2	65	280	40	1.4	48	30	2.4	36	20	6.5	24	2.3	33
LC2-AN255K1200VR-V1	2.5	90	280	60	0.7	72	50	1.0	60	35	2.3	42	2.1	33
LC2-AN255K1200VR-V2	2.5	90	280	50	1.0	60	40	1.5	48	30	3.2	36	2.1	33
LC2-AN305K1200VR-V1	3	90	280	60	0.6	72	50	0.9	60	35	2.2	42	2.2	33
LC2-AN305K1200VR-V2	3	90	280	60	0.7	72	50	1.0	60	35	2.4	42	2.0	33

LC2-AN 1320Vrms

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +70C	Rθ C/W +70C	Cont. Power KVAR +70C	Cont. Irms +85C	Rθ C/W +85C	Cont. Power KVAR +85C	Cont. Irms +105C	Rθ C/W +105C	Cont. Power KVAR +105C	ESR mohm 100khz 25C	Stray Inductance nH
LC2-AN155K1320VR	1.5	90	280	35	1.7	46.2	30	2.3	40	20	6.3	26	2.4	33
LC2-AN205K1320VR	2	90	280	45	1.1	59.4	40	1.4	53	25	4.4	33	2.2	33
LC2-AN255K1320VR	2.5	90	280	60	0.7	79.2	50	1.1	66	35	2.6	46	1.9	33

In all circumstance, it is better to keep the actual capacitor Irms smaller than the listed Irms at the specific temperature.

1.2. High AC Current Capacitors / Heavy Current Capacitors / Resonant Capacitors :

LC2-RNM / LC3-RNM series :

Applications :

High Continuous AC Current applications, High Frequency AC/DC Filter, Medium Frequency Power applications, Induction Heating/Melting Equipments, High Current Welding, Resonant Circuits, Tank Circuits, Motor Controls; Oscillating, Bypass and Coupling circuits.

Properties :

Easy Installation
 Doesn't need Water Cooling
 Force Air Cooling can be useful at +105C but not a must
 High RMS Ripple Current with 100% duty
 Low ESR and ESL
 Low Thermal Resistance
 High continuous power with Lower Internal loss
 High Operating Temperature range up to +105C ranges
 Plastic Enclosure and Light Weight
 Flame Retardant UL94-V0 grade

Electrical Characteristics :

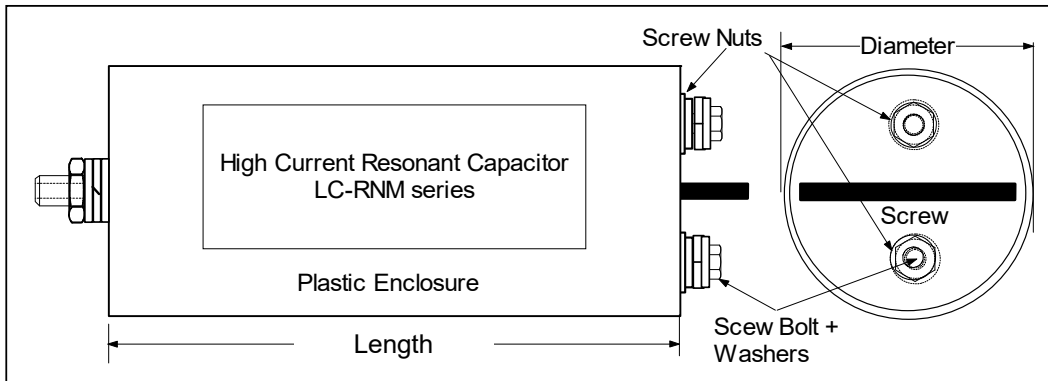
Rated Voltage : 250Vrms – 450Vrms - Support higher voltage requirement
 Capacitance range : 3 – 47uF (can be customized)
 Ripple RMS Current up to 100A - All the listed Currents are for 100% duty.
 Reactive Power up to 65kVAR

Other Electrical Characteristics :

Capacitance Tolerance : +/-5%; +/-10%
 Operating Temperature : +70C / +85C / +90C / +105C
 Thermal Resistance R θ : refer to the table below

Thermocouple can be built-in, capacitor internal temperature can be measured. The output temperature signal can be used as one of the reference signals in the circuit and trigger other function.

Specifications and Size : LC2-RNM series



LC2-RNM 250Vrms

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +70C	R θ C/W +70C	Cont. Power KVAR +70C	Cont. Irms +85C	R θ C/W +85C	Cont. Power KVAR +85C	Cont. Irms +105C	R θ C/W +105C	Cont. Power KVAR +105C	ESR mohm 100khz 25C	Stray Inductance nH
LC2-RNM126K250VR	12	65	180	65	0.9	16	55	1.2	14	45	1.8	11	1.65	15
LC2-RNM156K250VR	15	65	215	80	0.6	20	70	0.8	18	55	1.4	14	1.45	15
LC2-RNM186K250VR	18	65	225	100	0.4	25	80	0.7	20	65	1.1	16	1.35	15
LC2-RNM206K250VR	20	65	255	100	0.5	25	80	0.8	20	65	1.2	16	1.20	15
LC2-RNM226K250VR	22	90	170	120	0.4	30	90	0.7	23	75	1.0	19	1.10	15
LC2-RNM256K250VR	25	90	200	130	0.3	33	110	0.5	28	80	0.9	20	1.05	15
LC2-RNM306K250VR	30	90	230	160	0.3	40	130	0.4	33	100	0.7	25	0.90	15
LC2-RNM356K250VR	35	90	250	180	0.2	45	150	0.3	38	120	0.5	30	0.85	15
LC2-RNM406K250VR	40	90	260	200	0.2	50	150	0.4	38	120	0.6	30	0.75	15
LC2-RNM456K250VR	45	90	295	220	0.2	55	150	0.4	38	120	0.6	30	0.70	15
LC2-RNM476K250VR	47	90	295	240	0.1	60	150	0.4	38	120	0.6	30	0.70	15

In all circumstance, it is better to keep the actual capacitor Irms smaller than the listed Irms at the specific temperature.

LC2-RNM 325Vrms

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +70C	Rθ C/W +70C	Cont. Power KVAR +70C	Cont. Irms +85C	Rθ C/W +85C	Cont. Power KVAR +85C	Cont. Irms +105C	Rθ C/W +105C	Cont. Power KVAR +105C	ESR mohm 100khz 25C	Stray Inductance nH
LC2-RNM106K325VR	10	65	185	60	0.9	20	50	1.3	16	40	2.0	13	1.90	15
LC2-RNM126K325VR	12	65	220	70	0.7	23	60	1.0	20	45	1.7	15	1.70	15
LC2-RNM156K325VR	15	65	260	90	0.5	29	75	0.7	24	60	1.1	20	1.50	15
LC2-RNM186K325VR	18	90	180	100	0.4	33	80	0.7	26	65	1.1	21	1.35	15
LC2-RNM206K325VR	20	90	185	110	0.4	36	90	0.6	29	75	0.9	24	1.25	15
LC2-RNM226K325VR	22	90	220	125	0.3	41	100	0.5	33	85	0.7	28	1.20	15
LC2-RNM256K325VR	25	90	250	150	0.2	49	125	0.3	41	100	0.5	33	1.10	15
LC2-RNM306K325VR	30	90	260	170	0.2	55	150	0.3	49	120	0.5	39	0.90	15
LC2-RNM356K325VR	35	90	295	200	0.2	65	170	0.3	55	135	0.4	44	0.80	15

LC2-RNM 360Vrms

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +70C	Rθ C/W +70C	Cont. Power KVAR +70C	Cont. Irms +85C	Rθ C/W +85C	Cont. Power KVAR +85C	Cont. Irms +105C	Rθ C/W +105C	Cont. Power KVAR +105C	ESR mohm 100khz 25C	Stray Inductance nH
LC2-RNM605K360VR	6	65	185	50	1.5	18	40	2.3	14	35	3.0	13	1.80	15
LC2-RNM805K360VR	8	65	225	70	0.8	25	55	1.4	20	40	2.6	14	1.6	15
LC2-RNM106K360VR	10	90	155	85	0.7	31	65	1.1	23	50	1.9	18	1.45	15
LC2-RNM126K360VR	12	90	185	100	0.5	36	80	0.9	29	65	1.3	23	1.3	15
LC2-RNM156K360VR	15	90	220	120	0.4	43	100	0.6	36	80	1.0	29	1.1	15
LC2-RNM206K360VR	20	90	270	160	0.3	58	130	0.4	47	100	0.7	36	0.9	15

LC2-RNM 415Vrms

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +70C	Rθ C/W +70C	Cont. Power KVAR +70C	Cont. Irms +85C	Rθ C/W +85C	Cont. Power KVAR +85C	Cont. Irms +105C	Rθ C/W +105C	Cont. Power KVAR +105C	ESR mohm 100khz 25C	Stray Inductance nH
LC2-RNM305K415VR	3	65	150	35	2.1	15	30	2.9	12	20	6.5	8	2.3	15
LC2-RNM405K415VR	4	65	185	45	1.5	19	35	2.4	15	25	4.8	10	2.0	15
LC2-RNM505K415VR	5	65	220	55	1.1	23	45	1.6	19	35	2.7	15	1.8	15
LC2-RNM605K415VR	6	65	260	65	0.8	27	55	1.2	23	45	1.7	19	1.7	15
LC2-RNM805K415VR	8	90	185	85	0.6	35	70	0.8	29	60	1.1	25	1.5	15
LC2-RNM106K415VR	10	90	220	100	0.4	42	85	0.6	35	70	0.9	29	1.35	15
LC2-RNM126K415VR	12	90	260	120	0.3	50	100	0.5	42	80	0.8	33	1.2	15

LC2-RNM 450Vrms

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +70C	Rθ C/W +70C	Cont. Power KVAR +70C	Cont. Irms +85C	Rθ C/W +85C	Cont. Power KVAR +85C	Cont. Irms +105C	Rθ C/W +105C	Cont. Power KVAR +105C	ESR mohm 100khz 25C	Stray Inductance nH
LC2-RNM305K450VR	3	65	230	40	1.5	18	35	2.0	16	25	3.8	11	2.5	15
LC2-RNM405K450VR	4	65	295	50	1.0	23	40	1.6	18	30	2.9	14	2.3	15
LC2-RNM505K415VR	5	90	180	65	0.7	29	55	0.9	25	40	1.8	18	2.1	15
LC2-RNM605K450VR	6	90	210	75	0.6	34	60	0.9	27	50	1.3	23	1.8	15
LC2-RNM805K450VR	8	90	250	85	0.5	38	70	0.7	32	60	1.0	27	1.65	15

In all circumstance, it is better to keep the actual capacitor Irms smaller than the listed Irms at the specific temperature.

1.3. High AC Current Capacitors / Heavy Current Capacitors / Resonant Capacitors :

LC1-BN / LC2-BN / LC3-BN series :

Applications :

High Continuous AC Current applications, High Frequency AC/DC Filter, Medium Frequency Power applications, Induction Heating/Melting Equipments, High Current Welding, Resonant Circuits, Tank Circuits, Motor Controls; Oscillating, Bypass and Coupling circuits.

Properties :

Easy Installation
 Doesn't need Water Cooling
 Force Air Cooling can be useful at +85C but not a must
 High RMS Ripple Current with 100% duty
 Low ESR and ESL
 Low Thermal Resistance
 High continuous power with Lower Internal loss
 High Operating Temperature range up to +105C ranges
 Plastic Enclosure and Light Weight
 Flame Retardant UL94-V0 grade

Electrical Characteristics :

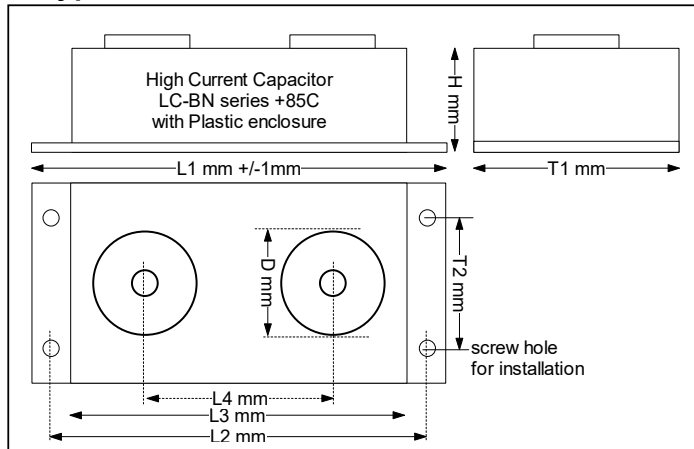
Rated Voltage : Support customization
 Capacitance range : Support customization
 Ripple RMS Current up to 250A - All the listed Currents are for 100% duty.
 Reactive Power : Support customization

Other Electrical Characteristics :

Capacitance Tolerance : +/-5%; +/-10%
 Operating Temperature : +70C / +85C
 Thermal Resistance R θ : refer to the table below

Thermocouple can be built-in, capacitor internal temperature can be measured. The output temperature signal can be used as one of the reference signals in the circuit and trigger other function.

Box type : LC2-BN series



LC2-BN 350Vrms

P/N :	Cn uF	L1 mm	T1 mm	H mm	Cont. Irms +85C	R θ C/W +85C	Cont. Power KVAR +85C	ESR mohm 100khz 25C	Stray Inductance nH	Connection Nut Screw Diameter Dmm
LC2-BN605K350VR	6	200	90	36	80	1.2	29	0.8	5	35

LC2-BN 380Vrms

P/N :	Cn uF	L1 mm	T1 mm	H mm	Cont. Irms +85C	R θ C/W +85C	Cont. Power KVAR +85C	ESR mohm 100khz 25C	Stray Inductance nH	Connection Nut Screw Diameter Dmm
LC2-BN256K380VR	25	255	121	62	150	1.0	58	0.7	5	35

LC2-BN 500Vrms

P/N :	Cn uF	L1 mm	T1 mm	H mm	Cont. Irms +85C	R θ C/W +85C	Cont. Power KVAR +85C	ESR mohm 100khz 25C	Stray Inductance nH	Connection Nut Screw Diameter Dmm
LC3-BN506K500VR	50	265	185	95	150	1.0	75	1.5	6	35

Please feel free to tell the RMS Current, Reative Power, Capacitance and Voltage that work for your application. In all circumstance, it is better to keep the actual capacitor Irms smaller than the listed Irms at the specific temperature.

1.4. Induction Heating Capacitors :

LC1-BR / LC2-BR / LC3-BR series :

Applications :

Induction heating power supplies, Induction Heating/Melting Equipments, Resonant Circuits, Tank Circuits and High Continuous AC Current applications, High Current Welding and High Current Power Supplies.

Properties :

Easy Installation

With Heavy Duty Busbars for high current applications

Doesn't need Water Cooling

Force Air Cooling can be very useful, due to high current

High RMS Ripple Current with 100% duty

Low ESR and ESL

Low Thermal Resistance

High continuous power with Lower Internal loss

Plastic Enclosure and Light Weight

Flame Retardant UL94-V0 grade

Lower end customers Electricity Cost kWh by increasing Furnace/Oven

Heating Rate significantly

Electrical Characteristics :

Reactive Power up to 800kVAR

Ripple RMS Current up to 800A - All the listed Currents are for 100% duty. – (Support other voltage requirement)

Rated Voltage : 1000Vrms – 5500Vrms – (Support other voltage requirement)

Maximum Frequency : up to 13kHz

Capacitance range : 0.5 – 20uF – (Support other voltage requirement)

Voltage Test : 1.4 x Vn 10s

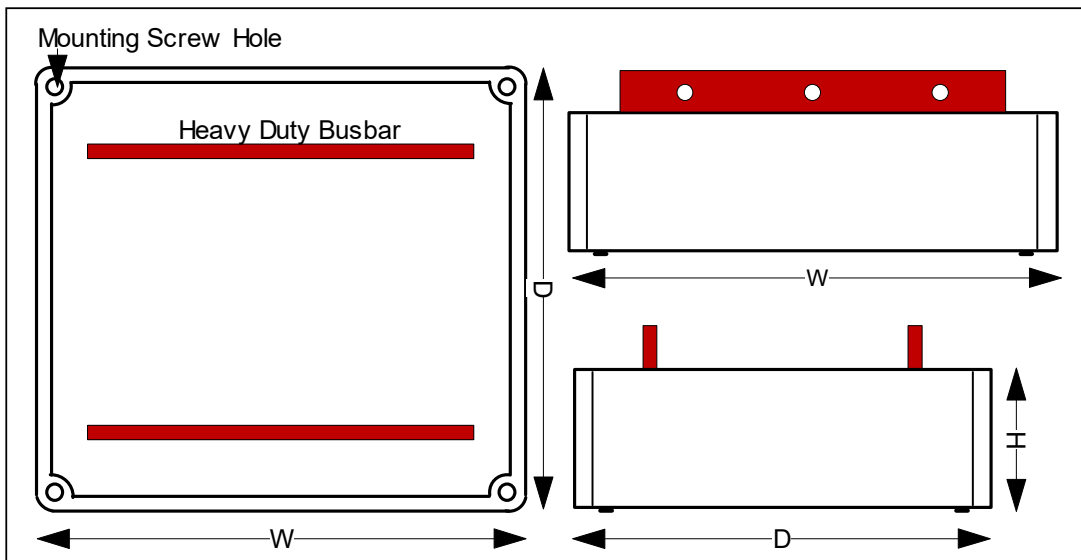
Over-Voltage : 1.05 x Vrms 12 hours / day

Over-Current : 1.15 x Irms +40C

Other Electrical Characteristics :

Capacitance Tolerance : +/-10%

Operating Temperature : +70C / +85C and support +105C requirement



Specifications and Size :

P/N	Cn uF	Vrms	Frequency kHz	Irms +50C	Cont. Power KVAR	Dimension +/-1mm W x D x H mm
LC1-BR805K1200VR600KVAR-V1	8	1200	8	500	600	340 x 280 x 105
LC1-BR705K1200VR500KVAR-V1	7.2	1200	7	420	500	340 x 280 x 105
LC1-BR505K1200VR600KVAR-V1	5	1200	13	500	600	340 x 280 x 105
LC1-BR355K1400VR560KVAR-V1	3.5	1400	13	400	560	340 x 280 x 105
LC3-BR504K5500VR550KVAR-V1	0.5	5500	5	100	550	560 x 280 x 105

Please feel free to tell the RMS Current, Reative Power, Capacitance and Voltage that work for your application For any Capacitance, Voltage, Ampere, kHz and KVAR not listed, please contact us for a suggestion.

Headquarter & Production : HK Film Capacitor Ltd <https://www.filmcapacitor-st.com> e-mail : info@filmcapacitor-st.com
Worldwide Sales Office : HKFC Industrial Pty Ltd <https://www.hkfc-industrial.com> e-mail : enquiry@hkfc-industrial.com

2.1 High Voltage AC Power Capacitors : STHVA-AN series

Applications :

- High Voltage and High RMS Current applications
- Medium Frequency range and RMS Current rating
- High Voltage Medium Frequency Power applications
- High Voltage Resonant Circuits
- High Voltage Induction applications
- Voltage Multiplier
- act as discharge capacitor to trigger laser, X-Ray and Tesla Coil
- for high voltage capacitor bank or array
- High Voltage Power Supplies



Features :

- low inductance
- excellent Frequency Response
- RMS Current Rating
- higher Temperature range

When compare with traditional Paper Dielectric, Oil Impregnated and Metal Enclosure Capacitor :

- Plastic enclosure : safer when compare with oil impregnated capacitor, especially high voltage application.
- Dry construction : Epoxy Resin end seal and doesn't have impregnant leakage problem
- Plastic enclosure and Epoxy Resin are flame retardant UL94-V0 grade
- compact size and light weight
- Higher Insulation Resistance and Insulation Voltage
- Low capacitor loss
- DC Blocking / Ultra-Low Leakage version on request

Electrical Characteristics :

Rated Voltage : 1100Vrms – 3500Vrms

Capacitance : 0.01uF – 0.15uF

Maximum RMS Current : up to 45A (Continuous Duty)

Reactive Power up to 105kVAR

Testing Voltage : 1.4 x Uac 30 sec (can be customized design)

Low ESR and series Inductance

Temperature range : +70C / +85C / +105C (depends on capacitor raw materials)

Application Frequency range available on request

Pulse Voltage rise & fall time dv/dt : detail information available on request

Ultra-Low Leakage version is available on request

Specifications and Size :

STHVA-AN 1100Vrms 1600Vpeak

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +70C	Rθ C/W +70C	Cont. Power KVAR +70C	Cont. Irms +85C	Rθ C/W +85C	Cont. Power KVAR +85C	Cont. Irms +105C	Rθ C/W +105C	Cont. Power KVAR +105C	ESR mohm 100khz 25C	Stray Inductance nH
STHVA-AN503K1100VR	0.05	65	65	15	6.1	16.2	12	8.8	13.5	10	14.9	11.3	3.8	20
STHVA-AN683K1100VR	0.068	65	65	15	6.1	16.5	12	9.5	13.2	10	16.4	11.0	3.65	20
STHVA-AN753K1100VR	0.075	65	65	15	6.3	16.5	12	9.9	13.2	10	17.1	11.0	3.5	20
STHVA-AN823K1100VR	0.082	65	65	15	6.5	16.5	12	10.2	13.2	10	17.6	11.0	3.4	20
STHVA-AN104K1100VR	0.1	90	65	25	2.4	27.5	20	3.8	22.0	15	8.1	16.5	3.3	20
STHVA-AN124K1100VR	0.12	90	65	30	1.8	33.0	25	2.5	27.5	20	4.8	22.0	3.15	20
STHVA-AN154K1100VR	0.15	90	65	40	1.1	44.0	30	1.9	33.0	25	3.3	27.5	2.9	20

STHVA-AN 1700Vrms 2500Vpeak

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +70C	Rθ C/W +70C	Cont. Power KVAR +70C	Cont. Irms +85C	Rθ C/W +85C	Cont. Power KVAR +85C	Cont. Irms +105C	Rθ C/W +105C	Cont. Power KVAR +105C	ESR mohm 100khz 25C	Stray Inductance nH
STHVA-AN503K1700VR	0.05	65	120	18	3.6	30.6	15	5.2	25.5	12	9.7	20.4	4.3	37
STHVA-AN683K1700VR	0.068	65	120	18	3.7	30.6	15	5.3	25.5	12	9.9	20.4	4.2	37
STHVA-AN753K1700VR	0.075	65	120	25	2.0	42.5	20	3.1	34.0	15	6.7	25.5	4.0	37
STHVA-AN104K1700VR	0.1	90	120	35	1.1	59.7	25	2.2	42.5	20	4.2	34.0	3.6	37
STHVA-AN124K1700VR	0.12	90	120	35	1.2	59.5	25	2.4	42.5	20	4.4	34.0	3.4	37
STHVA-AN154K1700VR	0.15	90	120	45	0.8	76.5	35	1.3	59.5	28	2.4	47.6	3.2	37

STHVA-AN 1900Vrms 2800Vpeak

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. Irms +70C	Rθ C/W +70C	Cont. Power KVAR +70C	Cont. Irms +85C	Rθ C/W +85C	Cont. Power KVAR +85C	Cont. Irms +105C	Rθ C/W +105C	Cont. Power KVAR +105C	ESR mohm 100khz 25C	Stray Inductance nH
STHVA-AN503K1900VR	0.05	65	120	15	5.3	28.5	12	8.3	22.8	10	15.8	18.1	4.2	37
STHVA-AN683K1900VR	0.068	65	120	15	5.6	28.5	12	8.7	22.8	10	16.6	18.1	4.0	37
STHVA-AN753K1900VR	0.075	65	120	20	3.3	38.0	15	5.8	28.5	12	11.0	22.8	3.8	37
STHVA-AN104K1900VR	0.1	90	120	30	1.5	57.0	25	2.2	47.5	20	4.2	38.0	3.6	37
STHVA-AN124K1900VR	0.12	90	120	30	1.6	57.0	25	2.3	47.5	20	4.3	38.0	3.45	37
STHVA-AN154K1900VR	0.15	90	120	35	1.2	66.5	30	1.7	57.0	25	2.9	47.5	3.3	37

For any Capacitance, Voltage, Ampere, kHz and KVAR not listed, please contact us for a suggestion.

Headquarter & Production : HK Film Capacitor Ltd <https://www.filmcapacitor-st.com> e-mail : info@filmcapacitor-st.com
Worldwide Sales Office : HKFC Industrial Pty Ltd <https://www.hkfc-industrial.com> e-mail : enquiry@hkfc-industrial.com

STHVA-AN 2100Vrms 3000Vpeak

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. I rms +70C	Rθ C/W +70C	Cont. Power KVAR +70C	Cont. I rms +85C	Rθ C/W +85C	Cont. Power KVAR +85C	Cont. I rms +105C	Rθ C/W +105C	Cont. Power KVAR +105C	ESR mohm 100khz 25C	Stray Inductance nH
STHVA-AN333K2100VR	0.033	65	175	18	2.5	37.8	13	4.8	27.3	10	9.7	21.0	6.2	55
STHVA-AN503K2100VR	0.05	65	175	20	2.4	42.0	15	4.3	31.5	12	8.0	25.2	5.2	55
STHVA-AN683K2100VR	0.068	90	175	30	1.2	63.0	25	1.8	52.5	18	4.1	37.8	4.5	55
STHVA-AN753K2100VR	0.075	90	175	30	1.4	63.0	25	2.1	52.5	18	4.7	37.8	3.9	55
STHVA-AN104K2100VR	0.1	90	175	40	0.9	84.0	35	1.1	73.5	25	2.7	52.5	3.6	55

STHVA-AN 2500Vrms 3600Vpeak

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. I rms +70C	Rθ C/W +70C	Cont. Power KVAR +70C	Cont. I rms +85C	Rθ C/W +85C	Cont. Power KVAR +85C	Cont. I rms +105C	Rθ C/W +105C	Cont. Power KVAR +105C	ESR mohm 100khz 25C	Stray Inductance nH
STHVA-AN253K2500VR	0.025	65	230	18	1.6	45.0	13	3.1	32.5	10	6.4	25.0	9.4	75
STHVA-AN333K2500VR	0.033	65	230	18	2.2	45.0	13	4.2	32.5	10	8.5	25.0	7.1	75
STHVA-AN503K2500VR	0.05	90	230	25	1.4	62.5	20	2.1	50.0	15	4.5	37.5	5.9	75
STHVA-AN683K2500VR	0.068	90	230	30	1.1	75.0	25	1.6	62.5	20	3.1	50.0	4.9	75
STHVA-AN753K2500VR	0.075	90	230	30	1.3	75.0	25	1.9	62.5	20	3.5	50.0	4.3	75

STHVA-AN 2650Vrms 3750Vpeak

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. I rms +70C	Rθ C/W +70C	Cont. Power KVAR +70C	Cont. I rms +85C	Rθ C/W +85C	Cont. Power KVAR +85C	Cont. I rms +105C	Rθ C/W +105C	Cont. Power KVAR +105C	ESR mohm 100khz 25C	Stray Inductance nH
STHVA-AN253K2650VR	0.025	65	230	16	2.0	42.4	12	3.6	31.8	10	6.3	26.5	9.6	75
STHVA-AN333K2650VR	0.033	65	230	16	2.6	42.4	12	4.7	31.8	10	8.1	26.5	7.4	75
STHVA-AN503K2650VR	0.05	90	230	20	2.0	53.0	15	3.6	39.8	12	6.7	31.8	6.2	75
STHVA-AN683K2650VR	0.068	90	230	25	1.6	66.3	20	2.5	53.0	15	5.2	39.8	5.1	75
STHVA-AN753K2650VR	0.075	90	230	30	1.2	79.5	25	1.8	66.3	20	3.3	53.0	4.5	75

STHVA-AN 3100Vrms 4500Vpeak

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. I rms +70C	Rθ C/W +70C	Cont. Power KVAR +70C	Cont. I rms +85C	Rθ C/W +85C	Cont. Power KVAR +85C	Cont. I rms +105C	Rθ C/W +105C	Cont. Power KVAR +105C	ESR mohm 100khz 25C	Stray Inductance nH
STHVA-AN153K3100VR	0.015	65	287	13	2.0	40.3	10	3.4	31.0	8	7.4	23.3	14.5	90
STHVA-AN223K3100VR	0.022	65	287	15	2.0	46.5	12	3.2	37.2	9	6.7	27.9	11.0	90
STHVA-AN253K3100VR	0.025	90	287	18	1.6	55.8	13	3.0	40.3	9	7.5	27.9	9.9	90
STHVA-AN333K3100VR	0.033	90	287	20	1.6	62.0	15	2.9	46.5	11	6.5	34.1	7.6	90
STHVA-AN503K3100VR	0.05	90	287	30	0.9	93.0	25	1.3	77.5	18	3.0	55.8	6.1	90

STHVA-AN 3500Vrms 5000Vpeak

P/N :	Cn uF	Diameter D mm	Length L mm	Cont. I rms +70C	Rθ C/W +70C	Cont. Power KVAR +70C	Cont. I rms +85C	Rθ C/W +85C	Cont. Power KVAR +85C	Cont. I rms +105C	Rθ C/W +105C	Cont. Power KVAR +105C	ESR mohm 100khz 25C	Stray Inductance nH
STHVA-AN103K3500VR	0.01	65	287	13	2.0	45.5	10	3.3	35.0	8	6.3	28.0	15	90
STHVA-AN123K3500VR	0.012	65	287	13	2.5	45.5	10	4.2	35.0	8	7.8	28.0	12	90
STHVA-AN153K3500VR	0.015	90	287	15	2.3	52.5	11	4.2	38.5	9	8.5	29.8	9.8	90
STHVA-AN223K3500VR	0.022	90	287	20	1.6	70.0	15	2.8	52.5	12	5.2	42.0	8.0	90
STHVA-AN253K3500VR	0.025	90	287	25	1.2	87.5	18	2.3	63.0	14	4.6	49.0	6.6	90
STHVA-AN333K3500VR	0.033	90	287	30	1.0	105.0	22	1.8	77.0	17	3.6	59.5	5.8	90

For any Capacitance, Voltage, RMS Current and Reactive Power not listed, please contact us for a suggestion.

2.2 High Voltage Pulse Capacitors : STHVP-AN series

Applications :

- High Voltage Energy and Current Discharge
- Medium Frequency range and RMS Current rating
- AC / DC voltage application
- Capacitor can be discharged at rated voltage directly without any protective component with temperature up to 105C
- High Voltage Decoupling and Snubbing
- Voltage Multiplier
- Induction heating / melting
- act as discharge capacitor to trigger laser, X-Ray and Tesla Coil
- for high voltage capacitor bank or array
- High Voltage Power Supplies

Features :

- low inductance
- excellent Frequency Response
- RMS Current Rating
- high peak Pulse Current Ratings (dv/dt)
- higher Temperature range

When compare with traditional Paper Dielectric, Oil Impregnated and Metal Enclosure Capacitor :

- Plastic enclosure : safer when compare with oil impregnated capacitor, especially high voltage application.
- Dry construction : Epoxy Resin end seal and doesn't have impregnant leakage problem
- Plastic enclosure and Epoxy Resin are flame retardant UL94-V0 grade
- compact size and light weight
- Higher Insulation Resistance and Insulation Voltage
- Low capacitor loss
- DC Blocking / Ultra-Low Leakage version on request



Electrical Characteristics :

Rated Voltage : 1,600Vdc – 12.5KVdc / 800Vac – 3,500Vac

Capacitance : 0.1uF – 10uF

Maximum Ripple Current : up to 60A

Peak discharge current - I peak : up to 6150A

Tolerance : +/-10%, +/-5% at 22C 1kHz,

Testing Voltage : 1.3 x Un 10sec (can be customized design)

Insulation Resistance : 250Vdc +25C >= 300,000Mohm

250Vdc +85C >= 50,000Mohm

250Vdc +105C >= 5,000Mohm

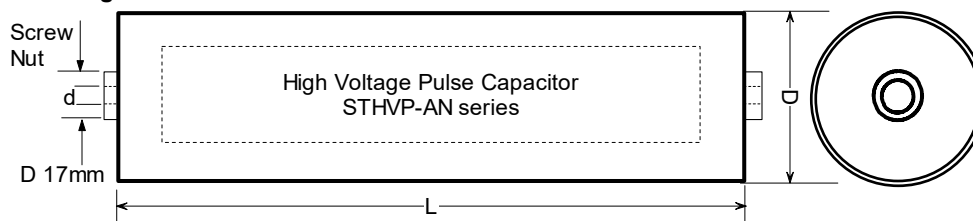
Low ESR and series Inductance

Temperature range : +70C / +85C / +105C (depends on capacitor raw materials)

Ultra-Low Leakage version is available on request

Drawing :

Drawing : STHVP-AN series



STHVP-AN : 1600Vdc / 800Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{D-P} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
STHVP-AN305K1600D	3	65	130	700	2100	20	3.1	40	28	20
STHVP-AN405K1600D	4	65	155	700	2800	22	2.8	40	28	20
STHVP-AN505K1600D	5	90	130	700	3500	20	2.6	50	35	25
STHVP-AN605K1600D	6	90	130	700	4200	20	2.4	55	38	28
STHVP-AN805K1600D	8	90	155	500	4000	22	2.1	55	38	28
STHVP-AN106K1600D	10	90	155	500	5000	22	1.8	60	40	30

For any Capacitance, Voltage, RMS Current, dv/dt and Peak Pulse Discharge Current not listed, please contact us for a suggestion.

STHVP-AN : 2000Vdc / 1000Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
STHVP-AN504K2000D	0.5	65	130	1600	800	20	3.3	20	15	12
STHVP-AN105K2000D	1	65	130	1600	1600	20	3.1	25	18	15
STHVP-AN155K2000D	1.5	65	130	1600	2400	20	1.9	30	20	18
STHVP-AN205K2000D	2	65	155	1200	2400	22	1.8	30	20	18
STHVP-AN225K2000D	2.2	65	155	1200	2640	22	1.8	30	20	18
STHVP-AN255K2000D	2.5	90	130	1600	4000	20	1.7	40	30	22

STHVP-AN : 3000Vdc / 1200Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
STHVP-AN504K3000D	0.5	65	130	2900	1450	20	2.9	20	15	12
STHVP-AN105K3000D	1	65	130	2900	2900	20	2.7	25	18	15
STHVP-AN155K3000D	1.5	90	130	2900	4350	20	2.4	35	25	18
STHVP-AN205K3000D	2	90	130	2900	5800	20	2.1	50	35	25
STHVP-AN225K3000D	2.2	90	155	2200	4840	22	1.9	50	35	25
STHVP-AN255K3000D	2.5	90	130	2200	5500	22	1.4	60	40	30

STHVP-AN : 4000Vdc / 1600Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
STHVP-AN334K4000D	0.33	65	190	3900	1287	20	3.1	20	15	12
STHVP-AN504K4000D	0.5	65	190	3900	1450	20	2.9	20	15	12
STHVP-AN105K4000D	1	90	190	3900	3900	20	2.7	35	25	18
STHVP-AN125K4000D	1.2	90	190	3900	4680	20	2.4	40	28	20
STHVP-AN155K4000D	1.5	90	240	3000	4500	22	2.1	40	28	20
STHVP-AN205K4000D	2	90	240	3000	6000	22	1.9	55	38	28

STHVP-AN : 5500Vdc / 2200Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
STHVP-AN254K5500D	0.25	65	240	5400	1350	20	3.2	25	18	13
STHVP-AN334K5500D	0.33	65	240	5400	1782	20	3.1	25	18	13
STHVP-AN504K5500D	0.5	90	240	5400	2700	20	2.9	30	20	15
STHVP-AN754K5500D	0.75	90	240	5400	4050	20	2.8	35	25	18
STHVP-AN105K5500D	1	90	240	5400	5400	20	2.6	40	28	22
STHVP-AN125K5500D	1.2	90	295	4100	4920	22	2.4	40	28	22
STHVP-AN155K5500D	1.5	90	295	4100	6150	22	2.1	50	35	25

STHVP-AN : 7000Vdc / 2600Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
STHVP-AN224K7000D	0.22	65	295	7000	1540	20	3.3	20	15	10
STHVP-AN254K7000D	0.25	65	295	7000	1750	20	3.2	25	18	13
STHVP-AN334K7000D	0.33	65	295	7000	2310	20	3.1	25	18	13
STHVP-AN504K7000D	0.5	90	295	7000	3500	20	2.9	30	20	16
STHVP-AN684K7000D	0.68	90	295	7000	4760	20	2.6	35	25	18
STHVP-AN754K7000D	0.75	90	295	7000	5250	20	2.1	40	28	20

STHVP-AN : 10000Vdc / 3000Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
STHVP-AN224K10000D	0.22	65	295	10700	2354	22	3.3	20	15	10
STHVP-AN254K10000D	0.25	65	295	10700	2675	22	3.2	20	15	10
STHVP-AN334K10000D	0.33	65	295	10700	3531	22	3.1	25	18	13
STHVP-AN504K10000D	0.5	90	295	10700	5350	22	2.9	30	20	15

STHVP-AN : 12500Vdc / 3500Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
STHVP-AN104K12500D	0.1	65	295	16100	1610	15	4.5	20	15	10
STHVP-AN124K12500D	0.12	65	295	16100	1932	15	3.8	20	15	10
STHVP-AN154K12500D	0.15	90	295	16100	2415	15	3.2	25	20	15
STHVP-AN204K12500D	0.2	90	295	16100	3220	15	2.9	30	25	20
STHVP-AN224K12500D	0.22	90	295	16100	3542	15	2.6	35	30	25
STHVP-AN254K12500D	0.25	90	295	16100	4025	15	2.4	35	30	25

For any Capacitance, Voltage, RMS Current, dv/dt and Peak Pulse Discharge Current not listed, please contact us for a suggestion.

2.3 High Voltage Filter Capacitors :

STHVF-AN : with screw Nut at Capacitor both Ends

STHVF-A : with Copper Lead at Capacitor both Ends (Axial Lead)

Applications :

- High Voltage By-pass DC/AC Filtering, Transient and Harmonic Damping
- Coupling and Decoupling
- Filter applications
- Voltage Multiplier
- Induction heating
- X-Ray power supplies
- Electrostatic air cleaners

Features :

- Polypropylene film dielectric
- Low inductance
- Excellent Frequency Response
- RMS Current Rating
- High peak Pulse Current Ratings (dv/dt)
- Higher Temperature range
- DC Blocking / Ultra-Low Leakage version on request

When compare with traditional Paper Dielectric, Oil Impregnated and Metal Enclosure Capacitor :

- Plastic enclosure : safer when compare with oil impregnated capacitor.
- Dry construction : Epoxy Resin end seal and doesn't have impregnant leakage problem
- Plastic enclosure and Epoxy Resin are flame retardant UL94-V0 grade
- higher Insulation Resistance and Insulation Voltage



Electrical Characteristics : STHVF series

Rated Voltage : 1,700Vdc – 23KVdc / 650Vac – 8,800Vac

Capacitance range : 0.075uF – 15uF with **Tolerance** : +/-10% +/-5% at 25C

Rated Temperature : +70C / +85C / +105C

Insulation Resistance : 250Vdc +25C >= 300,000Mohm
250Vdc +85C >= 50,000Mohm

Testing Voltage Terminal to Terminal : Vdc : 1.5 x rated Vdc 10 seconds at 85C
Vac : 1.5 x rated Vac 10 seconds at 85C

Accelerated Life : 1.25 x Vdc or Vac at rated Temperature for 2,000 hours

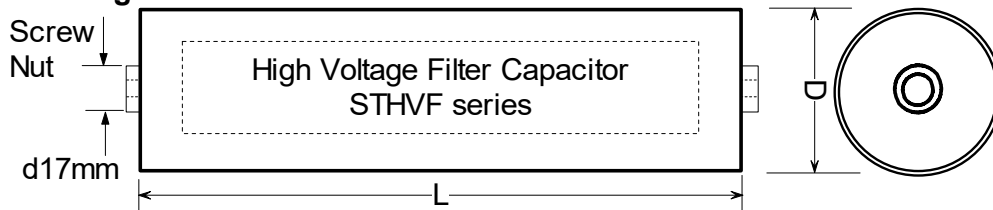
Maximum Ripple Current : up to 60A

Peak discharge current - I peak : up to 8400A

Temperature range : +70C / +85C (depends on capacitor raw materials)

Ultra-Low Leakage version is available on request

Drawing : STHVF series



Specifications and Size :

STHVF-AN : 1700Vdc / 650Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN155K1700D	1.5	65	57	500	750	8.5	5.06	10	8
STHVF-AN205K1700D	2	65	57	500	1000	8.5	4.60	9	7
STHVF-AN255K1700D	2.5	65	57	300	750	8.5	4.14	9	7
STHVF-AN335K1700D	3.3	65	57	300	990	8.5	3.80	11	9
STHVF-AN405K1700D	4	65	57	300	1200	8.5	3.59	16	13
STHVF-AN505K1700D	5	90	57	300	1500	8.5	3.34	17	14
STHVF-AN605K1700D	6	90	57	300	1800	8.5	3.22	21	17

For any Capacitance, Voltage, dv/dt and Peak Pulse Discharge Current not listed, please contact us for a suggestion.

STHVF-AN : 1800Vdc / 750Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN405K1800D	4	65	280	1500	6000	35	5.29	8	6
STHVF-AN505K1800D	5	65	280	800	3200	35	5.52	8	7
STHVF-AN605K1800D	6	65	280	800	4800	35	5.29	10	8
STHVF-AN705K1800D	7	65	280	700	4900	35	5.29	11	9
STHVF-AN805K1800D	8	65	280	500	4000	35	3.22	11	8
STHVF-AN905K1800D	9	90	280	800	8100	35	3.22	25	20
STHVF-AN106K1800D	10	90	280	700	7000	35	3.22	27	21
STHVF-AN126K1800D	12	90	280	500	6000	20	2.99	27	21
STHVF-AN156K1800D	15	90	280	500	7500	35	2.99	33	27

STHVF-AN : 2100Vdc / 800Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN105K2100D	1	65	57	800	800	8.5	6.21	8	7
STHVF-AN125K2100D	1.2	65	57	800	960	8.5	5.52	10	8
STHVF-AN155K2100D	1.5	65	57	800	1200	8.5	5.06	13	10
STHVF-AN205K2100D	2	65	57	800	1600	8.5	4.60	17	13
STHVF-AN335K2100D	3.3	90	57	500	1650	8.5	4.14	14	11
STHVF-AN355K2100D	3.5	90	57	500	1750	8.5	3.68	15	12
STHVF-AN405K2100D	4	90	57	500	2000	8.5	3.34	17	14

STHVF-AN : 2200Vdc / 850Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN305K2200D	3	65	280	1500	4500	35	5.52	7	5
STHVF-AN405K2200D	4	65	280	1200	4800	35	5.52	8	6
STHVF-AN505K2200D	5	65	280	800	4000	35	5.29	8	7
STHVF-AN605K2200D	6	65	280	800	4800	35	5.29	10	8
STHVF-AN705K2200D	7	65	280	700	4900	35	5.06	11	9
STHVF-AN805K2200D	8	90	280	800	6400	20	3.68	22	18
STHVF-AN905K2200D	9	90	280	700	6300	20	3.50	25	20
STHVF-AN106K2200D	10	90	280	700	7000	20	3.34	27	21
STHVF-AN126K2200D	12	90	280	700	8400	20	3.34	30	24

STHVF-AN : 2400Vdc / 960Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN255K2400D	2.5	65	280	1500	3750	35	5.91	6	4
STHVF-AN305K2400D	3	65	280	1500	4500	35	5.52	7	5
STHVF-AN355K2400D	3.5	65	280	1500	5250	35	5.52	8	6
STHVF-AN405K2400D	4	65	280	1200	4800	35	5.29	8	6
STHVF-AN505K2400D	5	65	280	800	4000	35	5.52	8	7
STHVF-AN605K2400D	6	65	280	800	4800	20	5.29	10	8
STHVF-AN705K2400D	7	90	280	800	5600	20	3.68	20	16
STHVF-AN805K2400D	8	90	280	800	6400	20	3.45	23	19
STHVF-AN905K2400D	9	90	280	800	7200	20	3.22	25	20
STHVF-AN106K2400D	10	90	280	800	8000	20	2.99	28	23

STHVF-AN : 2900Vdc / 1100Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN255K2900D	2.5	65	280	1500	3750	35	5.98	6	4
STHVF-AN305K2900D	3	65	280	1500	4500	35	5.52	7	5
STHVF-AN355K2900D	3.5	65	280	1500	5250	35	5.52	8	6
STHVF-AN405K2900D	4	65	280	1200	4800	35	5.29	8	6
STHVF-AN505K2900D	5	90	280	1500	7500	35	3.45	19	15
STHVF-AN605K2900D	6	90	280	1200	7200	20	3.22	20	16

For any Capacitance, Voltage, dv/dt and Peak Pulse Discharge Current not listed, please contact us for a suggestion.

STHVF-AN : 3000Vdc / 1200Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN684K3000D	0.68	65	57	1200	816	7.5	6.21	7	5
STHVF-AN105K3000D	1	65	57	1200	1200	7.5	5.52	10	8
STHVF-AN125K3000D	1.2	65	57	1200	1440	7.5	5.06	12	10
STHVF-AN155K3000D	1.5	90	57	1200	1800	7.5	4.37	15	12
STHVF-AN205K3000D	2	90	57	1200	2400	7.5	3.91	20	16
STHVF-AN225K3000D	2.2	90	57	1200	2640	7.5	3.45	20	16

STHVF-AN : 3300Vdc / 1300Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN504K3300D	0.5	65	57	1500	750	7.5	6.90	6	4
STHVF-AN684K3300D	0.68	65	57	1500	1020	7.5	6.21	8	6
STHVF-AN105K3300D	1	65	57	1500	1500	7.5	5.52	11	9
STHVF-AN125K3300D	1.2	90	57	1500	1800	7.5	4.83	14	11
STHVF-AN155K3300D	1.5	90	57	1500	2250	7.5	4.37	17	13

STHVF-AN : 4600Vdc / 1800Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN504K4600D	0.5	65	100	2300	1150	20	5.75	11	9
STHVF-AN684K4600D	0.68	65	100	1300	884	20	5.06	11	9
STHVF-AN105K4600D	1	65	100	1300	1300	20	4.60	16	12
STHVF-AN125K4600D	1.2	90	100	1300	1560	20	4.14	21	17
STHVF-AN155K4600D	1.5	90	100	1300	1950	20	3.68	26	21

STHVF-AN : 5000Vdc / 1750Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN254K5000D	0.25	65	102	2000	500	60	6.0	15	12
STHVF-AN334K5000D	0.33	65	102	2000	660	60	5.4	15	12
STHVF-AN504K5000D	0.5	65	102	1700	850	70	5	18	15
STHVF-AN684K5000D	0.68	65	102	1700	1156	70	4.6	25	20
STHVF-AN754K5000D	0.75	65	102	1700	1275	70	4.2	25	20
STHVF-AN824K5000D	0.82	65	102	1700	1394	70	3.7	25	20
STHVF-AN105K5000D	1	90	139	1700	1700	70	3.3	30	25
STHVF-AN125K5000D	1.2	90	139	1700	2040	70	2.8	30	25
STHVF-AN155K5000D	1.5	90	139	1700	2550	70	2.5	35	30

STHVF-AN : 6000Vdc / 1700Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN254K6000D	0.25	65	165	3100	775	35	5.3	20	15
STHVF-AN334K6000D	0.33	65	272	3100	1023	35	4.8	20	15
STHVF-AN504K6000D	0.5	90	272	3100	1550	35	4.2	35	30
STHVF-AN654K6000D	0.65	90	272	3100	2015	35	3.8	45	40
STHVF-AN754K6000D	0.75	90	215	3100	2325	45	3.4	50	45
STHVF-AN105K6000D	1	90	215	3100	3100	45	3	50	45

STHVF-AN : 6000Vdc / 2400Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN254K6000D	0.25	65	139	2400	600	70	6.3	15	10
STHVF-AN334K6000D	0.33	65	139	2400	792	70	5.6	15	10
STHVF-AN504K6000D	0.5	65	139	2400	1200	70	5.1	25	20
STHVF-AN684K6000D	0.68	90	139	2400	1632	70	4.6	25	20
STHVF-AN754K6000D	0.75	90	139	2400	1800	70	4	30	25
STHVF-AN824K6000D	0.82	90	139	2400	1968	70	3.7	30	25
STHVF-AN105K6000D	1	90	139	2400	2400	70	3.4	35	30
STHVF-AN125K6000D	1.2	90	139	2400	2880	70	3	35	30

For any Capacitance, Voltage, dv/dt and Peak Pulse Discharge Current not listed, please contact us for a suggestion.

STHVF-AN : 6000Vdc / 2400Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN334K6000D	0.33	65	100	3900	1287	20	7.59	7	6
STHVF-AN504K6000D	0.5	65	100	2300	1150	20	6.90	11	9
STHVF-AN684K6000D	0.68	65	100	2300	1564	20	5.98	15	12
STHVF-AN105K6000D	1	90	100	2300	2300	20	5.29	20	16
STHVF-AN125K6000D	1.2	90	100	2300	2760	20	4.14	26	21

STHVF-AN : 7000Vdc / 2800Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN224K7000D	0.22	65	100	3900	858	20	9.20	6	5
STHVF-AN254K7000D	0.25	65	100	3100	775	20	8.28	7	5
STHVF-AN334K7000D	0.33	65	100	3100	1023	20	7.59	9	7
STHVF-AN504K7000D	0.5	65	100	3100	1550	20	6.90	13	10
STHVF-AN684K7000D	0.68	90	100	3100	2108	20	5.98	18	14

STHVF-AN : 7800Vdc / 3100Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN224K7800D	0.22	65	100	3900	858	20	9.20	6	5
STHVF-AN254K7800D	0.25	65	100	3900	975	20	7.82	7	6
STHVF-AN334K7800D	0.33	65	100	3900	1287	20	6.90	10	8
STHVF-AN504K7800D	0.5	90	100	3900	1950	20	6.21	15	12
STHVF-AN684K7800D	0.68	90	100	3900	2652	20	4.83	20	16

STHVF-AN : 8000Vdc / 2500Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN224K8000D	0.22	65	215	4200	924	45	5.5	22	18
STHVF-AN254K8000D	0.25	65	215	4200	1050	45	4.9	22	18
STHVF-AN334K8000D	0.33	65	215	4200	1386	45	4.4	25	20
STHVF-AN504K8000D	0.5	65	215	4200	2100	45	4.1	35	30
STHVF-AN654K8000D	0.65	90	215	4200	2730	45	3.6	40	35
STHVF-AN754K8000D	0.75	90	215	4200	3150	45	3.2	50	45
STHVF-AN105K8000D	1	90	215	4200	4200	45	2.9	60	55

STHVF-AN : 8000Vdc / 2600Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN224K8000D	0.22	65	139	3600	792	70	7	12	10
STHVF-AN254K8000D	0.25	65	139	3600	900	70	6.0	12	10
STHVF-AN334K8000D	0.33	65	139	3600	1188	70	5.3	15	12
STHVF-AN504K8000D	0.5	65	139	3600	1800	70	4.8	25	20
STHVF-AN684K8000D	0.68	90	139	3600	2448	70	4.3	30	25
STHVF-AN754K8000D	0.75	90	139	3600	2700	70	3.9	30	25
STHVF-AN824K8000D	0.82	90	139	3600	2952	70	3.5	33	30

STHVF-AN : 8000Vdc / 3000Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN224K8000D	0.22	65	175	4800	1056	30	13.8	10	8
STHVF-AN254K8000D	0.25	65	175	3900	975	30	12.4	10	8
STHVF-AN304K8000D	0.3	65	175	3900	1170	30	11.5	12	10
STHVF-AN334K8000D	0.33	65	175	2600	858	30	10.8	12	9
STHVF-AN504K8000D	0.5	65	175	1600	800	30	9.2	13	11
STHVF-AN754K8000D	0.75	65	175	1600	1200	30	8.3	20	16
STHVF-AN105K8000D	1	90	175	1600	1600	30	7.4	27	21
STHVF-AN125K8000D	1.2	90	175	1600	1920	30.0	5.8	32	26
STHVF-AN125K8000D	1.25	90	175	1600	2000	30	4.6	33	27

For any Capacitance, Voltage, dv/dt and Peak Pulse Discharge Current not listed, please contact us for a suggestion.

STHVF-AN : 9300Vdc / 3700Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN224K9300D	0.22	65	175	4800	1056	30	13.8	10	8
STHVF-AN254K9300D	0.25	65	175	3800	950	30	12.4	10	8
STHVF-AN304K9300D	0.3	65	175	3800	1140	30	11.5	12	10
STHVF-AN334K9300D	0.33	65	175	3800	1254	30	9.2	13	11
STHVF-AN504K9300D	0.5	65	175	2300	1150	30	8.3	16	12
STHVF-AN684K9300D	0.68	90	175	2300	1564	30	7.4	21	17
STHVF-AN754K9300D	0.75	90	175	2300	1725	30	6.7	23	19
STHVF-AN105K9300D	1	90	175	2300	2300	30	6.0	30	24

STHVF-AN : 10000Vdc / 2850Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN154K10kD	0.15	65	215	5900	885	45	6	15	13
STHVF-AN204K10kD	0.2	65	215	5900	1180	45	5.4	18	15
STHVF-AN224K10kD	0.22	65	215	5900	1298	45	4.7	20	17
STHVF-AN254K10kD	0.25	65	215	5900	1475	45	4.2	25	20
STHVF-AN334K10kD	0.33	65	215	5900	1947	45	3.8	25	22
STHVF-AN504K10kD	0.5	90	215	5900	2950	45	3.4	40	35
STHVF-AN654K10kD	0.65	90	215	5900	3835	45	3.1	50	45
STHVF-AN754K10kD	0.75	90	215	5900	4425	45	2.8	50	45

STHVF-AN : 10000Vdc / 3000Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN154K10kD	0.15	65	139	5600	840	70	9	8	7
STHVF-AN224K10kD	0.22	65	139	5600	1232	70	7.6	10	8
STHVF-AN254K10kD	0.25	65	139	5600	1400	70	6.8	12	10
STHVF-AN334K10kD	0.33	90	139	5600	1848	70	6.1	15	12
STHVF-AN504K10kD	0.5	90	139	5600	2800	70	5.2	25	20

STHVF-AN : 12000Vdc / 3400Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN124K12kD	0.12	65	262	6800	816	60	6.2	15	13
STHVF-AN154K12kD	0.15	65	262	6800	1020	60	5.7	15	13
STHVF-AN204K12kD	0.2	65	262	6800	1360	60	5	20	17
STHVF-AN224K12kD	0.22	65	262	6800	1496	60	4.5	20	17
STHVF-AN254K12kD	0.25	65	262	6800	1700	60	4	25	22
STHVF-AN334K12kD	0.33	90	262	6800	2244	60	3.7	30	25
STHVF-AN504K12kD	0.5	90	262	6800	3400	60	3.2	45	40
STHVF-AN654K12kD	0.65	90	262	6800	4420	60	3.0	50	45

STHVF-AN : 12000Vdc / 3700Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN104K12kD	0.1	65	196	6100	610	75	10	8	7
STHVF-AN124K12kD	0.12	65	196	6100	732	75	9	8	7
STHVF-AN154K12kD	0.15	65	196	6100	915	75	8.2	8	7
STHVF-AN224K12kD	0.22	90	196	6100	1342	75	7.3	12	10
STHVF-AN254K12kD	0.25	90	196	6100	1525	75	6.5	15	12
STHVF-AN334K12kD	0.33	90	196	6100	2013	75	5.9	20	15

STHVF-AN : 12000Vdc / 4800Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN224K12KD-V1	0.22	65	175	4800	1056	30	13.8	10	8
STHVF-AN254K12KD-V1	0.25	65	175	3800	950	30	11.0	11	9
STHVF-AN304K12KD	0.3	65	175	3800	1140	30	7.8	12	10
STHVF-AN334K12KD	0.33	65	175	3800	1254	30	7.4	13	11
STHVF-AN504K12KD	0.5	90	175	3800	1900	30	6.9	20	16

For any Capacitance, Voltage, dv/dt and Peak Pulse Discharge Current not listed, please contact us for a suggestion.

STHVF-AN : 13000Vdc / 5000Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN224K13KD	0.22	65	175	4800	1056	30	13.8	3.0	8
STHVF-AN254K13KD	0.25	65	175	4800	1200	30	11.0	2.9	9
STHVF-AN304K13KD	0.3	90	175	4800	1440	30	7.6	3.0	11
STHVF-AN334K13KD	0.33	90	175	4800	1584	30	6.9	2.7	12

STHVF-AN : 15000Vdc / 3750Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN104K15kD	0.1	65	295	8600	860	70	6.5	15	13
STHVF-AN124K15kD	0.12	65	295	8600	1032	70	5.9	15	13
STHVF-AN154K15kD	0.15	65	295	8600	1290	70	5.3	20	17
STHVF-AN204K15kD	0.2	65	295	8600	1720	70	4.7	20	17
STHVF-AN224K15kD	0.22	65	295	8600	1892	70	4.3	20	17
STHVF-AN254K15kD	0.25	90	295	8600	2150	70	3.9	30	25
STHVF-AN334K15kD	0.33	90	295	8600	2838	70	3.6	40	25
STHVF-AN504K15kD	0.5	90	295	8600	4300	70	3.1	50	45

STHVF-AN : 15000Vdc / 4500Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN753K15kD	0.075	65	272	7600	570	90	12	7	6
STHVF-AN104K15kD	0.1	65	272	7600	760	90	10.5	9	7
STHVF-AN124K15kD	0.12	65	272	7600	912	90	9.6	10	8
STHVF-AN154K15kD	0.15	90	272	7600	1140	90	8.7	12	10
STHVF-AN204K15kD	0.2	90	272	7600	1520	90	7.6	12	10
STHVF-AN224K15kD	0.22	90	272	7600	1672	90	6.8	18	15
STHVF-AN254K15kD	0.25	90	272	7600	1900	90	6.2	18	15

STHVF-AN : 16000Vdc / 6400Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN154K16KD	0.15	65	165	6000	900	40	14.0	8	7
STHVF-AN204K16KD	0.2	65	165	6000	1200	40	13.3	11	9
STHVF-AN224K16KD	0.22	90	165	6000	1320	40	12.7	12	10
STHVF-AN254K16KD	0.25	90	165	6000	1500	40	12.0	14	11
STHVF-AN304K16KD	0.3	90	165	6000	1800	40	11.3	17	13
STHVF-AN334K16KD	0.33	90	165	6000	1980	40	10.8	18	15

STHVF-AN : 20000Vdc / 4500Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN104K20kD-V1	0.1	65	295	12900	1290	80	6.2	20	17
STHVF-AN124K20kD-V1	0.12	65	295	12900	1548	80	5.6	20	17
STHVF-AN154K20kD-V1	0.15	90	295	12900	1935	80	5	25	20
STHVF-AN204K20kD-V1	0.2	90	295	12900	2580	80	4.5	30	25
STHVF-AN224K20kD-V1	0.22	90	295	12900	2838	80	4	35	30
STHVF-AN254K20kD-V1	0.25	90	295	12900	3225	80	3.4	40	35

STHVF-AN : 20000Vdc / 5000Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN753K20kD	0.075	65	272	10200	765	90	13	8	7
STHVF-AN104K20kD-V2	0.1	65	272	10200	1020	90	11.2	10	8
STHVF-AN124K20kD-V2	0.12	65	272	10200	1224	90	10	12	10
STHVF-AN154K20kD-V2	0.15	90	272	10200	1530	90	9	15	12
STHVF-AN204K20kD-V2	0.2	90	272	10200	2040	90	7.7	15	12
STHVF-AN224K20kD-V2	0.22	90	272	10200	2244	90	6.9	20	15
STHVF-AN254K20kD-V2	0.25	90	272	10200	2550	90	6.1	25	20

For any Capacitance, Voltage, dv/dt and Peak Pulse Discharge Current not listed, please contact us for a suggestion.

STHVF-AN : 2000Vdc / 7700Vac

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN104K20KD-V3	0.1	65	250	7200	720	45	14.7	7	5
STHVF-AN124K20KD-V3	0.12	65	250	7200	864	45	14.0	8	6
STHVF-AN154K20KD-V3	0.15	90	250	7200	1080	45	13.3	10	8
STHVF-AN204K20KD-V3	0.2	90	250	7200	1440	45	12.7	13	11
STHVF-AN224K20KD-V3	0.22	90	250	7200	1584	45	12.7	15	12
STHVF-AN254K20KD-V3	0.25	90	250	7200	1800	45	12.4	17	13
STHVF-AN304K20KD	0.3	90	250	7200	2160	45	11.7	20	16
STHVF-AN334K20KD	0.33	90	250	7200	2376	45	11.7	22	18

STHVF-AN : 2300Vdc / 8800Vac

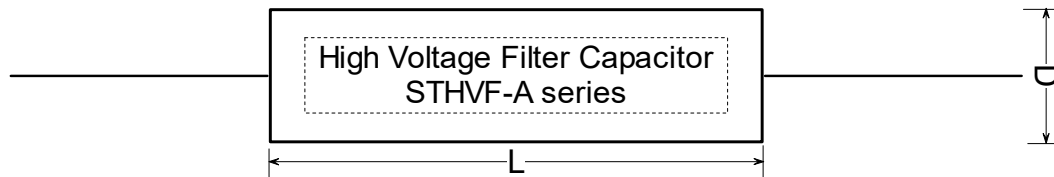
P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN104K23KD	0.1	65	296	8400	840	50	15.4	8	6
STHVF-AN124K23KD	0.12	65	296	8400	1008	50	14.7	9	8
STHVF-AN154K23KD	0.15	90	296	8400	1260	50	14.3	12	9
STHVF-AN204K23KD	0.2	90	296	8400	1680	50	13.8	16	12
STHVF-AN224K23KD	0.22	90	296	8400	1848	50	13.3	17	14
STHVF-AN254K23KD	0.25	90	296	8400	2100	50	12.9	20	16

For any Capacitance, Voltage, dv/dt and Peak Pulse Discharge Current not listed, please contact us for a suggestion.

2.4 High Voltage Filter Capacitors – Axial leads :

Electrical Characteristics : **STHVF-A** series : Copper lead at Capacitor both ends (Axial Lead)

Drawing : **STHVF-A** series



Rated Voltage : 850Vac – 3,000Vac / 1,700Vdc – 8kVdc

Capacitance range : 0.015uF – 0.47uF with Tolerance : +/-10% / +/-5% at 25C

Rated Temperature : +70C / +85C / +105C

Specifications and Size :

STHVF-01A : Vac = 850Vac / Vndc = 1700Vdc / Vpeak = 1100V 10s / Vsurge = 2750V 30s/day

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
STHVF-01A254K850A	0.25	35	83	1800	450	12	5.0	11	9	7
STHVF-01A354K850A	0.3	35	83	1800	540	12	5.0	13	11	9
STHVF-01A334K850A	0.33	35	83	1800	590	12	4.4	15	13	10
STHVF-01A474K850A	0.47	35	83	1800	840	12	3.9	15	13	10

STHVF-01A : Vac = 1000Vac / Vndc = 2000Vdc / Vpeak = 1250V 10s / Vsurge = 3200V 30s/day

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
STHVF-01A154K1000A	0.15	35	83	2800	420	12	5.5	9	8	6
STHVF-01A204K1000A	0.2	35	83	2800	560	12	5.5	12	11	8
STHVF-01A224K1000A	0.22	35	83	2800	610	12	5.5	12	11	8
STHVF-01A254K1000A	0.25	35	83	2800	700	12	5.0	15	13	10

STHVF-01A : Vac = 1200Vac / Vndc = 2500Vdc / Vpeak = 1500V 10s / Vsurge = 4000V 30s/day

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
STHVF-01A104K1200A	0.1	35	83	4000	400	12	5.0	8	7	5
STHVF-01A124K1200A	0.12	35	83	4000	480	12	4.4	8	7	5
STHVF-01A154K1200A	0.15	35	83	4000	600	12	4.4	11	9	7

STHVF-01A : Vac = 1300Vac / Vndc = 3200Vdc / Vpeak = 1600V 10s / Vsurge = 5100V 30s/day

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
STHVF-01A563K1300A	0.056	35	83	6180	340	12	7.5	5	4	3
STHVF-01A683K1300A	0.068	35	83	6180	420	12	6.6	6	5	4
STHVF-01A104K1300A	0.1	35	83	6180	620	12	5.5	9	8	6
STHVF-01A124K1300A	0.12	35	83	6180	740	12	5.5	11	10	7

STHVF-05A : Vac = 1500Vac / Vndc = 3750Vdc / Vpeak = 1880V 10s / Vsurge = 6000V 30s/day

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
STHVF-05A 223K1500A	0.022	35	72	9550	210	10	14.3	4	3	2
STHVF-05A253K1500A	0.025	35	72	9550	240	10	14.3	4	3	2
STHVF-05A333K1500A	0.033	35	83	7650	250	16.5	9.9	4	4	3
STHVF-05A473K1500A	0.047	35	83	7650	360	16.5	9.9	6	6	5
STHVF-05A563K1500A	0.056	40	83	7650	430	16.5	7.7	7	6	5

STHVF-A : 1800Vac / 4000Vdc / Vt = 6000Vdc 5s

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	I _{peak} A 105C	ESR (mohm) 100KHz	Max. Amp 85C
STHVF-A334k1800A-V1	0.22	35	110	1550	340	13.0	8
STHVF-A254k1800A-V1	0.25	35	110	1550	390	9.0	9

STHVF-05A : Vac = 1800Vac / Vndc = 5650Vdc / Vpeak = 2250V 10s / Vsurge = 9000V 30s/day

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
STHVF-05A153K1800A	0.015	35	72	11800	170	10	14.3	3	3	2
STHVF-05A223K1800A	0.022	35	83	9470	210	12	14.3	4	3	3
STHVF-05A253K1800A	0.025	35	83	9470	240	12	14.3	4	3	3
STHVF-05A333K1800A	0.033	35	83	9470	310	12	9.9	5	4	4

For any Capacitance, Voltage, dv/dt and Peak Pulse Discharge Current not listed, please contact us for a suggestion.

STHVF-A : 2200Vac / 5000Vdc / Vtt = 7500Vdc 5s

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	I _{peak} A 105C	ESR (mohm) 100KHz	Max. Amp 85C
STHVF-A154k2200A-V1	0.15	35	110	1700	255	13.0	7
STHVF-A224k2200A-V1	0.22	35	110	1700	370	9.0	10
STHVF-A254k2200A-V1	0.25	45	110	1700	425	9.0	11

STHVF-A : 2500Vac / 6000Vdc / Vtt = 9000Vdc 5s

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	I _{peak} A 105C	ESR (mohm) 100KHz	Max. Amp 85C
STHVF-A104k2500A-V1	0.1	35	110	2400	240	13.0	5
STHVF-A124k2500A-V1	0.12	35	110	2400	290	13.0	6
STHVF-A154k2500A-V1	0.15	35	110	2400	360	9.0	7
STHVF-A224k2500A-V1	0.22	45	110	2400	530	9.0	11

STHVF-A : 3000Vac / 8000Vdc / Vtt = 12KVdc 5s

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	I _{peak} A 105C	ESR (mohm) 100KHz	Max. Amp 85C
STHVF-A104k2500A-V1	0.075	35	110	4700	350	13.0	4
STHVF-A124k2500A-V1	0.1	35	110	4700	470	9.0	6
STHVF-A154k2500A-V1	0.12	45	110	4700	560	9.0	7
STHVF-A224k2500A-V1	0.15	45	110	4700	700	4.5	9

For any Capacitance, Voltage, dv/dt and Peak Pulse Discharge Current not listed, please contact us for a suggestion.

3.1 GTO Snubber Capacitors :

STG series

Applications :

GTO Snubbing and protection, Thyristor controlled rectifier circuits, High Current Snubber circuit, damping of voltage spikes on GTO-Thyristor.

Traction application and Static Drive, Pulsed Lasers, Medium Frequency tuning High ripple current and high dv/dt application.

Properties :

Very Low ESR, medium frequency range, High RMS Current Rating, High Pulse Current Rating dv/dt, High Voltage Capabilities, Temperature up to 105C, High Insulation Resistance and Flame Retardant Construction

Electrical Characteristics :

Rated Voltage : 400Vndc – 5,800Vndc / 160Vrms – 2,000Vrms

Capacitance range : 0.15 - 220uF (can be customized)

Ripple RMS Current up to 80A

Other Electrical Characteristics :

Capacitance Tolerance : +/-5%; +/-10%

Operating Temperature : +45C / +55C / +70C / +85C / +105C (depends on capacitor raw materials)

Testing Voltage Terminal to Terminal : Vsurge 10 sec (can be customized)

Testing Voltage Terminal to Case : 4500Vac at 105C 1min.

Support higher voltage requirement

Insulation Resistance :250Vdc +25C >= 300,000Mohm

250Vdc +85C >= 50,000Mohm

250Vdc +105C >= 5,000Mohm

Ultra-Low Leakage version is available on request

Reference Standard : IEC61071

Specifications and Size :

STG-A Vndc = 400V / Vrms = 160Vac / Vpeak = 230V 10s / Vsurge = 650V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	d (mm)
STG-A336J400D	33	65	58	2.2	38	25	800	45	21	M6
STG-A506J400D	50	90	58	1.8	38	25	1200	60	27	M8
STG-A756J400D	75	90	58	1.5	38	25	1800	70	33	M8
STG-A107J400D	100	90	58	1.6	38	25	2500	70	31	M8
STG-A117J400D	110	90	58	1.6	38	25	2700	70	34	M8
STG-A227J400D	220	90	96	1.9	80	12	2600	70	31	M8

STG-A Vndc = 600V / Vrms = 220Vac / Vpeak = 310V 10s / Vsurge = 900V 30s/day

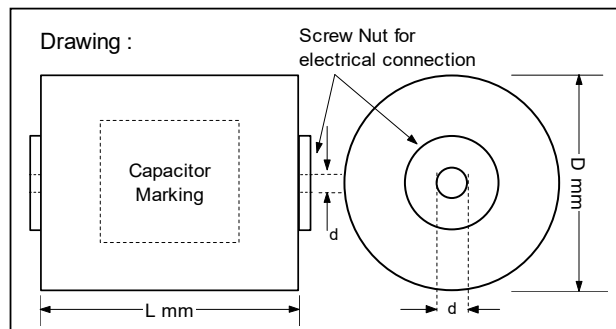
P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	d (mm)
STG-A336J600D	33	90	58	1.7	38	50	1600	47	25	M8
STG-A506J600D	50	90	58	1.6	38	50	2500	62	33	M8
STG-A107J600D	100	90	96	2.5	80	22	2200	57	30	M8

STG-A Vndc = 700V / Vrms = 250Vac / Vpeak = 350V 10s / Vsurge = 1100V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	D (mm)
STG-A206J700D	20	90	58	1.7	38	60	1200	46	35	M6
STG-A256J700D	25	90	58	1.6	38	60	1500	58	43	M8
STG-A336J700D	33	90	58	1.4	38	60	2000	62	47	M8
STG-A506J700D	50	90	96	2.6	80	25	1200	48	36	M8

STG-01A Vndc = 700V / Vrms = 250Vac / Vpeak = 360V 10s / Vsurge = 1000V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STG-01A126K700D	12	90	63.5	2.6	10	320	3800	60	55	40	M6
STG-01A156K700D	15	90	63.5	2.5	10	320	4800	60	55	40	M6
STG-01A206K700D	20	90	81	2.6	12	190	3800	60	55	40	M6
STG-01A226K700D	22	90	81	2.4	12	190	4200	60	55	40	M6
STG-01A256K700D	25	90	99	2.7	15	130	3300	60	55	40	M6
STG-01A306K700D	30	90	99	2.5	15	130	4000	60	55	40	M6
STG-01A356K700D	35	90	99	2.2	15	130	4600	60	55	40	M6
STG-01A406K700D	40	90	134	2.4	22	80	3400	60	55	40	M6
STG-01A456K700D	45	90	134	2.2	22	80	3900	70	65	45	M6
STG-01A506K700D	50	90	134	2.1	22	80	4300	70	65	45	M6



STG-01A V_{ndc} = 850V / V_{rms} = 320Vac / V_{peak} = 450V 10s / V_{surge} = 1300V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 45C	Max. Amp 55C	Max. Amp 70C	Max. Amp 85C	d (mm)
STG-01A205J850D	2	65	50	1.5	11	800	1600	38	30	20	12	M6
STG-01A225J850D	2.2	65	50	1.5	11	800	1700	40	35	23	13	M6
STG-01A255J850D	2.5	65	50	1.2	11	800	2000	45	38	25	15	M6
STG-01A305J850D	3	65	50	1.2	11	800	2400	55	45	30	18	M6
STG-01A405J850D	4	65	50	1.0	11	800	3200	70	60	40	25	M6
STG-01A505J850D	5	65	50	1.0	11	800	4000	80	70	50	30	M6
STG-01A605J850D	6	65	62	1.0	15	440	2600	60	50	35	20	M6
STG-01A805J850D	8	65	62	0.8	15	440	3500	80	70	45	25	M6

STG-A V_{ndc} = 850V / V_{rms} = 330Vac / V_{peak} = 470V 10s / V_{surge} = 1300V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STG-A256J850D	25	90	62	1.6	38	80	2000	65	49	35	M6
STG-A606J850D	60	90	92	2.5	80	30	1800	56	42	30	M6

STG-01A V_{ndc} = 900V / V_{rms} = 280Vac / V_{peak} = 400V 10s / V_{surge} = 1440V 10s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STG-01A225J900D	2.2	65	100	2.2	20	720	1500	35	30	10	M6
STG-01A335J900D	3.3	65	100	2.4	20	400	1300	30	25	9	M6
STG-01A475J900D	4.7	65	100	2.3	20	400	1900	35	30	10	M6
STG-01A685J900D	6.8	90	100	2.0	20	300	2000	40	35	15	M6
STG-01A106J900D	10	90	100	1.9	20	300	3000	45	50	17	M8
STG-01A156J900D	15	90	100	1.7	20	250	3700	50	50	17	M8
STG-01A226K900D	22	90	165	2.0	25	250	5500	60	55	25	M8
STG-01A336K900D	33	90	225	2.0	30	250	8200	80	60	30	M8
STG-01A406K900D-V1	40	90	225	1.7	30	250	10000	80	70	40	M8
STG-01A506K900D	50	90	293	1.9	40	250	12500	80	70	40	M8
STG-01A606K900D	60	90	293	1.7	40	250	15000	80	70	40	M8

STG-01A V_{ndc} = 900V / V_{rms} = 320Vac / V_{peak} = 450V 10s / V_{surge} = 1260V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STG-01A805K900D	8	65	81	2.8	12	280	2200	45	40	30	M6
STG-01A106K900D	10	65	81	2.7	12	280	2800	45	40	30	M6
STG-01A126K900D	12	65	99	2.6	15	190	2300	45	40	30	M6
STG-01A156K900D	15	65	99	2.5	15	190	2900	50	45	35	M6
STG-01A186K900D	18	90	99	2.4	15	190	3500	50	45	35	M6
STG-01A206K900D	20	65	134	2.5	22	120	2500	50	45	35	M6
STG-01A256K900D	25	90	134	2.4	22	120	3100	60	55	40	M6
STG-01A306K900D	30	90	134	2.3	22	120	3800	70	65	50	M6
STG-01A356K900D	35	90	134	2.2	22	120	4400	70	65	50	M6
STG-01A406K900D-V2	40	90	134	2.1	22	120	5000	70	65	50	M6

STG-01A V_{ndc} = 1000V / V_{rms} = 300Vac / V_{peak} = 450V 10s / V_{surge} = 1600V 10s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STG-01A225J1000D	2.2	65	100	2.2	20	880	1900	35	30	13	M6
STG-01A335J1000D	3.3	65	100	2.4	20	490	1600	30	25	11	M6
STG-01A475J1000D	4.7	65	100	2.0	20	490	2300	40	35	15	M6
STG-01A685J1000D	6.8	90	100	2.0	20	400	2700	40	40	18	M6
STG-01A755J1000D	7.5	90	100	1.7	20	400	3000	45	45	20	M8
STG-01A106J1000D	10	90	100	1.7	20	300	3000	45	45	20	M8
STG-01A126K1000D	12	90	165	1.9	29	300	3600	50	45	20	M8
STG-01A156K1000D	15	90	165	1.9	29	300	4500	60	50	25	M8
STG-01A226K1000D	22	90	165	1.7	35	300	6600	70	60	30	M8
STG-01A256K1000D	25	90	225	1.9	23	300	7500	80	55	25	M8
STG-01A306K1000D	30	90	225	1.7	23	300	9000	80	60	30	M8
STG-01A336K1000D	33	90	225	1.7	23	300	9900	80	70	35	M8
STG-01A356K1000D	35	90	293	1.9	18	300	10500	80	70	35	M8
STG-01A406K1000D	40	90	293	1.7	18	300	12000	80	70	35	M8

For other Capacitance, Voltage, dv/dt, Peak Current and RMS Current not listed, please contact us for a suggestion.

STG-01A V_{ndc} = 1100V / V_{rms} = 370Vac / V_{peak} = 525V 10s / V_{surge} = 1680V 10s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STG-01A605K1100D	6	65	81	2.7	12	420	2500	45	40	30	M6
STG-01A805K1100D	8	90	81	2.5	12	420	3400	55	50	40	M6
STG-01A106K1100D	10	90	81	2.2	12	420	4200	70	65	55	M6
STG-01A126K1100D	12	90	99	2.2	15	290	3502	70	65	55	M6
STG-01A156K1100D	15	90	134	2.4	22	190	2800	50	45	35	M6
STG-01A186K1100D	18	90	134	2.3	22	190	3400	55	50	40	M6
STG-01A206K1100D	20	90	134	2.2	22	190	3800	65	60	45	M6
STG-01A226K1100D	22	90	134	2.1	22	190	4200	70	65	50	M6
STG-01A256K1100D	25	90	134	1.9	22	190	4800	70	65	50	M6

STG-01A V_{ndc} = 1200V / V_{rms} = 390Vac / V_{peak} = 550V 10s / V_{surge} = 1800V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 45C	Max. Amp 55C	Max. Amp 70C	Max. Amp 85C	d (mm)
STG-01A105J1200D	1	65	50	1.6	11	1200	1200	30	25	16.5	10	M6
STG-01A155J1200D	1.5	65	50	1.5	11	1200	1800	45	35	25	15	M6
STG-01A205J1200D	2	65	50	1.2	11	1200	2400	60	50	33	18	M6
STG-01A225J1200D	2.2	65	50	1.2	11	1200	2600	65	55	35	20	M6
STG-01A255J1200D	2.5	65	62	1.2	15	620	1500	70	35	23	13	M6
STG-01A305J1200D	3	65	62	1.0	15	620	1800	50	40	27	16	M6
STG-01A355J1200D	3.5	65	62	1.0	15	620	2100	55	45	30	18	M6
STG-01A405J1200D	4	65	62	0.8	15	620	2400	65	55	35	22	M6

STG-01A V_{ndc} = 1200V / V_{rms} = 390Vac / V_{peak} = 550V 10s / V_{surge} = 1950V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 85C	Max. Amp 105C	d (mm)
STG-01A205K1200D-C6x	2	65	120	2.4	34.2	1220	2400	25	16.5	M6
STG-01A255K1200D-C6x	2.5	65	130	2.3	34.2	1220	3000	35	20	M6
STG-01A335K1200D-C6x	3.3	65	160	1.8	22.8	1220	4000	35	20	M6
STG-01A355K1200D-C6x	3.5	65	165	1.7	22.8	1220	4200	35	20	M6
STG-01A405K1200D-C6x	4	65	145	2.2	22.8	680	2700	25	15	M6
STG-01A505K1200D-C6x	5	65	215	1.9	17.1	1220	6100	50	30	M6
STG-01A605K1200D-C6x	6	65	185	2.1	17.1	680	4000	35	20	M6
STG-01A805K1200D-C6x	8	90	165	2.0	22.8	520	4100	40	23	M6
STG-01A106K1200D-C6x	10	90	180	1.9	22.8	520	5200	60	28	M8
STG-01A126K1200D-C6x	12	90	190	1.8	22.8	520	6200	60	35	M8
STG-01A156K1200D-C6x	15	90	245	1.8	17.1	520	7800	60	35	M8
STG-01A106K1200D-C6x	18	90	245	1.9	17.1	400	7200	60	35	M8
STG-01A106K1200D-C6x	20	90	245	1.8	17.1	400	8000	60	40	M8
STG-01A106K1200D-C6x	22	90	245	1.7	17.1	400	8800	60	40	M8

STG-A V_{ndc} = 1200V / V_{rms} = 440Vac / V_{peak} = 630V 10s / V_{surge} = 1800V 30s/day

P/N :	C _n uF	Diameter r D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	d (mm)
STG-A255J1200D	2.5	65	58	1.8	25	300	750	45	40	M8
STG-A305J1200D	3	65	58	1.7	25	300	900	50	46	M8
STG-A505J1200D	5	90	58	1.6	25	300	1500	70	53	M8
STG-A605J1200D	6	90	58	1.5	25	300	1800	70	64	M8

STG-01A V_{ndc} = 1300V / V_{rms} = 400Vac / V_{peak} = 580V 10s / V_{surge} = 2100V 10s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STG-01A225J1300D	2.2	65	100	2.3	20	680	1500	30	20	12	M6
STG-01A335J1300D	3.3	90	100	1.7	20	520	1700	40	30	14	M8
STG-01A475J1300D	4.7	90	100	1.8	20	520	2400	45	30	20	M8
STG-01A685J1300D	6.8	90	165	2.2	25	520	3500	50	35	20	M8
STG-01A755K1300D	7.5	90	165	1.9	29	520	3900	50	40	20	M8
STG-01A106K1300D	10	90	165	1.9	35	400	4000	55	40	20	M8
STG-01A126K1300D	12	90	165	1.7	35	400	4800	60	45	25	M8
STG-01A156K1300D	15	90	225	1.9	23	400	6000	70	45	25	M8
STG-01A206K1300D	20	90	293	1.9	18	400	8000	80	60	30	M8
STG-01A226K1300D	22	90	293	1.7	18	400	8800	80	60	30	M8
STG-01A256K1300D	25	90	293	1.7	18	400	10000	80	70	35	M8

For other Capacitance, Voltage, dv/dt, Peak Current and RMS Current not listed, please contact us for a suggestion.

STG-A V_{ndc} = 1400V / V_{rms} = 500Vac / V_{peak} = 700V 10s / V_{surge} = 2100V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 55C	Max. Amp 70C	Max. Amp 85C	d (mm)
STG-A225J1400D	2.2	65	56	2.0	8.5	530	1100	33	28	23	M6
STG-A255J1400D	2.5	65	56	1.8	8.5	530	1300	37	32	27	M6
STG-A305J1400D	3	65	56	1.8	8.5	530	1600	37	32	25	M6
STG-A405J1400D	4	65	56	1.5	8.5	530	2100	45	40	33	M6
STG-A505J1400D	5	90	56	1.4	8.5	530	2600	60	50	40	M6
STG-A605J1400D	6	90	56	1.2	8.5	530	3200	70	60	50	M8
STG-A705J1400D	7	90	56	1.1	8.5	530	3700	70	60	50	M8
STG-A805J1400D	8	90	56	0.9	8.5	530	4200	70	60	50	M8

STG-01A V_{ndc} = 1500V / V_{rms} = 450Vac / V_{peak} = 640V 10s / V_{surge} = 2400V 10s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STG-01A225J1500D	2.2	90	100	1.9	20	660	1400	35	30	7	M6
STG-01A335J1500D	3.3	90	100	1.7	20	660	2100	40	35	8	M6
STG-01A405J1500D	4	90	100	1.7	20	500	2000	40	35	8	M6
STG-01A455J1500D	4.5	90	100	1.7	20	500	2200	45	35	9	M8
STG-01A685K1500D	6.8	90	165	1.7	29	500	3400	55	50	14	M8
STG-01A755K1500D	7.5	90	165	1.8	35	500	3700	55	45	14	M8
STG-01A106K1500D-V1	10	90	225	1.8	23	500	5000	70	60	18	M8
STG-01A126K1500D-V1	12	90	225	1.7	23	500	6000	70	55	18	M8
STG-01A156K1500D-V1	15	90	293	1.8	18	500	7500	80	60	20	M8
STG-01A186K1500D	18	90	293	1.7	18	500	9000	80	70	20	M8

STG-01A V_{ndc} = 1500V / V_{rms} = 400Vac / V_{peak} = 570V 10s / V_{surge} = 2100V 10s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STG-01A405K1500D	4	65	81	2.7	12	694	2776	40	30	20	M6
STG-01A505K1500D	5	90	81	2.5	12	694	3470	40	30	20	M6
STG-01A605K1500D	6	65	99	2.7	15	480	2880	40	30	20	M6
STG-01A805K1500D	8	90	99	2.4	15	480	3840	55	45	35	M6
STG-01A106K1500D-V2	10	90	99	2.2	15	480	4800	70	60	50	M6
STG-01A126K1500D-V2	12	90	134	2.4	22	312	3744	55	45	35	M6
STG-01A156K1500D-V2	15	90	134	2.1	22	312	4680	70	60	50	M6

STG-01A V_{ndc} = 1500V / V_{rms} = 450Vac / V_{peak} = 636V 10s / V_{surge} = 2400V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 85C	Max. Amp 105C	d (mm)
STG-01A155K1500D-C6x	1.5	65	125	1.9	34.2	1500	2200	25	15	M6
STG-01A205K1500D-C6x	2	65	110	2.3	34.2	850	1700	25	15	M6
STG-01A255K1500D-C6x	2.5	65	165	1.9	22.8	1500	3700	35	25	M6
STG-01A305K1500D-C6x	3	65	145	2.3	22.8	850	2500	30	20	M6
STG-01A405K1500D-C6x	4	65	180	2.3	17.1	850	3400	30	20	M6
STG-01A505K1500D-C6x	5	90	160	1.9	22.8	660	3300	40	25	M6
STG-01A605K1500D-C6x	6	90	170	1.9	22.8	660	3960	40	25	M6
STG-01A805K1500D-C6x	8	90	195	1.7	22.8	660	5280	50	35	M6
STG-01A106K1500D-C6x	10	90	255	1.8	17.1	660	6600	60	40	M8
STG-01A126K1500D-C6x	12	90	255	1.7	17.1	660	7900	60	40	M8

STG-A V_{ndc} = 1500V / V_{rms} = 500Vac / V_{peak} = 700V 10s / V_{surge} = 2300V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	d (mm)
STG-A305J1500D	3	65	58	1.5	25	450	1300	47	33	M6
STG-A405J1500D	4	90	58	1.3	25	450	1800	63	44	M8

STG-01A V_{ndc} = 1600V / V_{rms} = 600Vac / V_{peak} = 850V 10s / V_{surge} = 2400V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 45C	Max. Amp 55C	Max. Amp 70C	Max. Amp 85C	d (mm)
STG-01A684J1600D	0.68	65	50	1.6	11	1500	1000	25	21	14	8	M6
STG-01A105J1600D	1	65	50	1.5	11	1500	1500	35	30	20	12	M6
STG-01A125J1600D	1.2	65	50	1.5	11	1500	1800	45	35	25	15	M6
STG-01A155J1600D	1.5	65	50	1.5	11	1500	2200	55	45	30	18	M6
STG-01A205J1600D	2	65	62	1.2	15	840	1600	40	35	23	13	M6
STG-01A225J1600D	2.2	65	62	1.2	15	840	1800	45	35	25	15	M6
STG-01A255J1600D	2.5	65	62	1.0	15	840	2100	50	40	27	16	M6

For other Capacitance, Voltage, dv/dt, Peak Current and RMS Current not listed, please contact us for a suggestion.

STG-01A V_{ndc} = 1700V / V_{rms} = 530Vac / V_{peak} = 750V 10s / V_{surge} = 2720V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STG-01A225K1700D	2.2	65	80	1.2	25	1200	2600	50	40	15	M6
STG-01A255K1700D	2.5	65	105	1.3	35	680	1700	50	40	15	M6
STG-01A305K1700D	3	65	105	1.5	35	680	2040	50	40	20	M6
STG-01A405K1700D	4	65	120	1.5	40	520	2080	50	40	20	M6
STG-01A505K1700D	5	65	140	1.5	50	400	2000	50	40	20	M6
STG-01A605K1700D	6	65	140	1.3	50	400	2400	60	50	25	M6

STG-01A V_{ndc} = 1700V / V_{rms} = 530Vac / V_{peak} = 740V 10s / V_{surge} = 2700V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 85C	Max. Amp 105C	d (mm)
STG-01A105K1800D-C6x	1	65	120	2.3	34.2	1800	1800	25	15	M6
STG-01A125K1800D-C6x	1.2	65	130	2.2	34.2	1800	2100	25	15	M6
STG-01A155K1800D-C6x	1.5	65	160	2.3	22.8	1800	2700	25	15	M6
STG-01A205K1800D-C6x	2	65	145	2.5	22.8	1040	2000	25	15	M6
STG-01A255K1800D-C6x	2.5	65	220	2.2	17.1	1800	4500	40	25	M6
STG-01A305K1800D-C6x	3	65	185	2.6	17.1	1040	3100	40	25	M6
STG-01A355K1800D-C6x	3.5	90	140	2.0	34.2	800	2800	40	25	M6
STG-01A405K1800D-C6x	4	90	145	1.9	34.2	800	3200	40	25	M6
STG-01A505K1800D-C6x	5	90	180	2.0	22.8	800	4000	40	25	M6
STG-01A605K1800D-C6x	6	90	200	1.8	22.8	800	4800	50	30	M6
STG-01A805K1800D-C6x	8	90	200	1.7	22.8	800	6400	50	30	M6
STG-01A106K1800D-C6x	10	90	250	1.8	17.1	800	8000	50	30	M6

STG-A V_{ndc} = 1700V / V_{rms} = 650Vac / V_{peak} = 920V 10s / V_{surge} = 2600V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 55C	Max. Amp 70C	Max. Amp 85C	d (mm)
STG-A205J1700D	2	65	56	1.9	8.5	845	1700	30	25	21	M6
STG-A225J1700D	2.2	65	56	1.7	8.5	845	1800	33	28	23	M6
STG-A255J1700D	2.5	65	56	1.5	8.5	845	2100	37	32	27	M6
STG-A305J1700D	3	65	56	1.3	8.5	845	2500	45	39	32	M6
STG-A405J1700D	4	90	56	1.1	8.5	845	3300	60	50	40	M6
STG-A505J1700D	5	90	56	1.0	8.5	845	4200	70	60	50	M8

STG-01A V_{ndc} = 1800V / V_{rms} = 540Vac / V_{peak} = 760V 10s / V_{surge} = 2900V 10s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STG-01A225J1800D	2.2	90	100	1.9	20	800	1700	35	30	15	M6
STG-01A335K1800D	3.3	90	165	2.5	29	800	2600	45	30	17	M8
STG-01A475K1800D	4.7	90	165	2.0	35	620	2900	45	30	17	M8
STG-01A685K1800D	6.8	90	225	2.0	23	620	4200	55	35	20	M8
STG-01A805K1800D-V1	8	90	225	1.8	23	620	4900	55	40	25	M8
STG-01A106K1800D-V1	10	90	293	1.8	18	620	6200	80	45	30	M8
STG-01A126K1800D-V1	12	90	293	1.7	18	620	7400	80	60	35	M8

STG-01A V_{ndc} = 1800V / V_{rms} = 440Vac / V_{peak} = 625V 10s / V_{surge} = 2520V 10s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STG-01A405K1800D	4	65	99	2.7	15	690	2700	35	30	20	M6
STG-01A505K1800D	5	90	99	2.5	15	690	3400	40	35	25	M6
STG-01A605K1800D	6	90	99	2.4	15	480	2800	45	40	30	M6
STG-01A805K1800D-V2	8	90	134	2.4	22	480	3800	45	40	30	M6
STG-01A106K1800D-V2	10	90	134	2.2	22	480	4800	55	50	40	M6
STG-01A126K1800D-V2	12	90	134	2.1	22	310	3700	55	50	40	M6

STG-A V_{ndc} = 1800V / V_{rms} = 600Vac / V_{peak} = 850V 10s / V_{surge} = 2700V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 45C	Max. Amp 55C	Max. Amp 85C	d (mm)
STG-A405J1800D	4	65	92	5.0	55	300	1200	25	18	12	M6
STG-A475J1800D	4.7	65	92	5.0	55	300	1400	30	20	15	M6
STG-A605J1800D	6	65	92	4.5	55	300	1800	35	25	17	M6
STG-A805J1800D	8	65	92	4.5	55	200	1600	40	30	20	M6
STG-A106J1800D	10	90	92	4.0	55	300	3000	55	40	30	M6
STG-A126J1800D	12	90	92	4.0	55	260	3100	65	50	35	M6

For other Capacitance, Voltage, dv/dt, Peak Current and RMS Current not listed, please contact us for a suggestion.

STG-01A V_{ndc} = 2000V / V_{rms} = 650Vac / V_{peak} = 920V 10s / V_{surge} = 3000V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 45C	Max. Amp 55C	Max. Amp 70C	Max. Amp 85C	d (mm)
STG-01A504J2000D	0.5	65	50	1.6	11	1880	940	22	18	12	7	M6
STG-01A684J2000D	0.68	65	50	1.5	11	1880	1200	30	25	17	10	M6
STG-01A105J2000D	1	65	50	1.2	11	1880	1900	45	35	25	15	M6
STG-01A125J2000D	1.2	65	62	1.6	15	1040	1200	30	25	16	10	M6
STG-01A155J2000D	1.5	65	62	1.5	15	1040	1500	35	30	30	20	M6

STG-01A V_{ndc} = 2100V / V_{rms} = 700Vac / V_{peak} = 700V 10s / V_{surge} = 3150V 10s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STG-01A405K2100D	4	90	153	2.4	17	1120	4500	50	40	30	M6
STG-01A505K2100D	5	90	153	2.2	17	1120	5600	65	55	45	M6
STG-01A605K2100D	6	90	190	2.1	20	780	4600	65	55	45	M6
STG-01A805K2100D	8	90	260	2.5	33	500	4000	45	35	25	M6
STG-01A106K2100D	10	90	260	2.3	33	500	5000	60	50	40	M6
STG-01A126K2100D	12	90	260	1.9	33	500	6000	70	60	50	M6

STG-A V_{ndc} = 2500V / V_{rms} = 900Vac / V_{peak} = 1270V 10s / V_{surge} = 3800V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 45C	Max. Amp 55C	Max. Amp 85C	d (mm)
STG-A225J2500D	2.2	65	92	5.0	55	530	1100	25	20	15	M6
STG-A335J2500D	3.3	65	92	4.5	55	530	1700	35	25	20	M6
STG-A475J2500D	4.7	90	92	4.0	55	530	2500	50	40	30	M6
STG-A685J2500D	6.8	90	92	4.0	55	530	3600	70	55	40	M6

STG-01A V_{ndc} = 2500V / V_{rms} = 950Vac / V_{peak} = 1300V 10s / V_{surge} = 3750V 10s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STG-01A255K2500D	2.5	65	280	2.8	33	540	1300	40	35	25	M6
STG-01A305K2500D	3	65	280	2.6	33	540	1600	50	40	30	M6
STG-01A405K2500D	4	65	280	2.9	33	540	2100	50	40	30	M6
STG-01A505K2500D	5	65	280	2.6	33	540	2700	60	50	40	M6
STG-01A605K2500D	6	90	280	2.3	33	540	3200	70	60	50	M6
STG-01A805K2500D	8	90	280	2.1	33	540	4300	70	60	50	M6

STG-A V_{ndc} = 2600V / V_{rms} = 1000Vac / V_{peak} = 1450V 10s / V_{surge} = 3900V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 55C	Max. Amp 70C	Max. Amp 85C	d (mm)
STG-A1755J2600D	1.75	65	89	2.5	11	1280	2200	30	25	21	M6
STG-A205J2600D	2	65	89	2.2	11	1280	2500	30	25	21	M6
STG-A225J2600D	2.2	65	89	2.2	11	1280	2800	36	30	25	M6

STG-01A V_{ndc} = 2700V / V_{rms} = 770Vac / V_{peak} = 1100V 10s / V_{surge} = 4350V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STG-01A205K2700D	2	65	160	1.6	50	1000	2000	60	50	25	M6
STG-01A255K2700D	2.5	65	190	1.6	60	800	2000	60	50	25	M6
STG-01A335K2700D	3.3	65	220	1.5	75	600	1980	60	50	25	M6
STG-01A405K2700D	4	65	220	1.3	75	600	2400	65	55	30	M6

STG-01A V_{ndc} = 3000V / V_{rms} = 1000Vac / V_{peak} = 1500V 10s / V_{surge} = 4900V 10s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STG-01A205K3000D	2	90	280	2.6	33	800	1600	40	30	22	M6
STG-01A255K3000D	2.5	90	280	2.7	33	800	2000	40	30	22	M6
STG-01A305K3000D	3	90	280	2.6	33	800	2400	50	40	25	M6
STG-01A405K3000D	4	90	280	2.3	33	800	3200	60	50	40	M6
STG-01A505K3000D	5	90	280	2.1	33	800	4000	70	60	45	M6

STG-A V_{ndc} = 3000V / V_{rms} = 1100Vac / V_{peak} = 1600V 10s / V_{surge} = 4300V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 45C	Max. Amp 55C	Max. Amp 85C	d (mm)
STG-A225J3000D	2.2	65	92	4.0	55	1180	2600	35	30	25	M6
STG-A335J3000D	3.3	65	92	4.0	55	1180	3900	50	45	40	M6

For other Capacitance, Voltage, dv/dt, Peak Current and RMS Current not listed, please contact us for a suggestion.

STG-01A V_{ndc} = 3100V / V_{rms} = 900Vac / V_{peak} = 1300V 10s / V_{surge} = 5000V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STG-01A155K3100D	1.5	65	160	1.6	50	1320	1980	50	40	20	M6
STG-01A205K3100D	2	65	190	1.5	60	1000	2000	50	40	20	M6
STG-01A225K3100D	2.2	65	190	1.3	60	1000	2200	50	40	20	M6
STG-01A255K3100D	2.5	65	190	1.2	60	1000	2500	60	50	25	M6
STG-01A305K3100D	3	65	220	1.3	75	800	2400	60	50	25	M6
STG-01A335K3100D	3.3	90	220	1.2	75	800	2640	65	55	27	M6
STG-01A355K3100D	3.5	90	220	1.1	75	800	2800	65	55	27	M6

STG-01A V_{ndc} = 3200V / V_{rms} = 780Vac / V_{peak} = 1100V 10s / V_{surge} = 4800V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 55C	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STG-01A254K3200D	0.25	65	93	4.5	32	1450	360	17	12.5	7.5	4.62	M6
STG-01A334K3200D	0.33	65	93	4.0	32	1450	480	17	12.5	8	4.5	M6
STG-01A504K3200D	0.5	65	93	4.0	32	1450	720	25	20	12	6.9	M6
STG-01A754K3200D	0.75	65	93	3.5	32	1450	1000	40	30	18	10.4	M6
STG-01A105K3200D	1	65	115	3.5	40	800	800	30	23	13.5	7.7	M6
STG-01A155K3200D	1.5	65	131	3.0	45	650	975	35	26	16	8.9	M6

STG-01A V_{ndc} = 3500V / V_{rms} = 920Vac / V_{peak} = 1300V 10s / V_{surge} = 5300V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 55C	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STG-01A254K3500D	0.25	65	93	5.0	32	1900	470	16	12.5	8	5	M6
STG-01A334K3500D	0.33	65	93	4.5	32	1900	620	25	20	12	8	M6
STG-01A504K3500D	0.5	65	93	4.0	32	1900	950	40	30	18	11	M6
STG-01A754K3500D	0.75	65	115	3.5	40	1100	820	30	23	13	8	M6
STG-01A105K3500D	1	65	133	3.5	45	825	820	35	26	16	10	M6

STG-01A V_{ndc} = 3600V / V_{rms} = 1100Vac / V_{peak} = 1600V 10s / V_{surge} = 5760V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STG-01A155K3600D	1.5	65	200	1.6	70	1355	2000	60	50	25	M6
STG-01A205K3600D	2	65	235	1.7	85	1000	2000	60	50	25	M6
STG-01A255K3600D	2.5	65	280	1.6	100	800	2000	60	50	25	M6
STG-01A305K3600D	3	65	280	1.3	100	800	2400	70	60	30	M6

STG-01A V_{ndc} = 4000V / V_{rms} = 1200Vac / V_{peak} = 1700V 10s / V_{surge} = 6000V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STG-01A155K4000D-V1	1.5	90	280	2.5	33	1280	1900	35	30	20	M6
STG-01A155K4000D-V2	1.5	65	280	2.5	33	1280	1900	30	25	18	M6
STG-01A205K4000D-V1	2	90	280	2.3	33	1280	2500	50	40	25	M6
STG-01A205K4000D-V2	2	65	280	2.3	33	1280	2500	40	30	20	M6
STG-01A255K4000D-V1	2.5	90	280	2.1	33	1280	3200	60	50	35	M6
STG-01A255K4000D-V2	2.5	90	280	2.1	33	1280	3200	50	40	30	M6
STG-01A305K4000D-V1	3	90	280	2.2	33	1280	3800	60	50	35	M6
STG-01A305K4000D-V2	3	90	280	2.0	33	1280	3800	60	50	35	M6

STG-01A V_{ndc} = 4500V / V_{rms} = 1350Vac / V_{peak} = 1950V 10s / V_{surge} = 7200V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STG-01A254K4500D	0.25	65	130	2.1	35	5000	1200	30	25	15	M6
STG-01A504K4500D	0.5	65	160	1.8	50	2900	1400	30	25	15	M6
STG-01A754K4500D	0.75	65	160	1.3	50	2900	2100	50	40	23	M6
STG-01A105K4500D	1	65	190	1.2	60	2200	2200	50	40	23	M6
STG-01A125K4500D	1.2	65	220	1.3	75	1700	2000	50	40	23	M6
STG-01A155K4500D	1.5	90	220	1.1	75	1700	2500	55	45	27	M6

STG-01A V_{ndc} = 5000V / V_{rms} = 1400Vac / V_{peak} = 2000V 10s / V_{surge} = 7500V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STG-01A155K5000D	1.5	90	280	2.4	33	1850	2700	35	30	20	M6
STG-01A205K5000D	2	90	280	2.2	33	1850	3700	45	40	25	M6
STG-01A255K5000D	2.5	90	280	1.9	33	1850	4600	60	50	35	M6

For other Capacitance, Voltage, dv/dt, Peak Current and RMS Current not listed, please contact us for a suggestion.

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STG-01A V_{ndc} = 5300V / V_{rms} = 1600Vac / V_{peak} = 2300V 10s / V_{surge} = 8500V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STG-01A254K5300D	0.25	65	130	1.6	35	7000	1700	40	30	15	M6
STG-01A504K5300D	0.5	65	160	1.3	50	3900	1900	40	30	20	M6
STG-01A754K5300D	0.75	65	220	1.6	75	2300	1700	40	30	20	M6
STG-01A105K5300D	1	90	220	1.2	75	2300	2300	45	35	25	M6

STG-A V_{ndc} = 5800V / V_{rms} = 2000Vac / V_{peak} = 2850V 10s / V_{surge} = 8700V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 55C	Max. Amp 70C	Max. Amp 85C	d (mm)
STG-A334J5800D	0.33	65	99	3.30	8.5	4860	1600	30	25	21	M6

For other Capacitance, Voltage, dv/dt, Peak Current and RMS Current not listed, please contact us for a suggestion.

3.2 Snubber Capacitors : STP-01R series

This series of capacitors have been specially developed for medium frequency range, higher dv/dt, peak current carrying capability.

Applications :

SCR Snubber and Commutation, Thyristor controlled rectifier circuits, Reduce or eliminate voltage or current spikes, Limit dv/dt and di/dt, Motor Speed Control and Static Drive, Harmonic Filter, Inverter and Converter.

Properties :

Low ESR, Excellent Frequency Response, High RMS Current Rating, High Pulse Current Ratings dv/dt, High Temperature, High Insulation Resistance, Low inductive, Flame Retardant Construction, Easy Installation

Electrical Connections :

STP-01R –Quick Terminals / Soldering tags or M6 Screw Threads

Electrical Characteristics :

Rated Voltage : 1,000 – 1,320Vndc / 660Vrms – 1,100Vrms (can be customized)

Capacitance range : 0.1 - 1.5uF (can be customized)

Capacitance Tolerance : +/-5%; +/-10%

Ripple RMS Current : up to 16A

Equivalent Series Resistance (ESR) : measured at 25C 100kHz

Testing Voltage Terminal to Terminal : Vsurge 10 sec (can be customized)

Testing Voltage Terminal to Case : 4,500Vac at 105C 1min.

Insulation Resistance :250Vdc +25C >= 300,000Mohm

250Vdc +85C >= 50,000Mohm

250Vdc +105C >= 5,000Mohm

Reference Standard : IEC61071

Operate Temperature : +70C / +85C / +105C

Expected Service Life : 30,000 hours at rated Vac +85C / +105C

100,000 hours at rated Vdc +85C / +105C

Accelerated Life : 1.25 x rated AC voltage at +85C / +105C for 2,000 hours

Ultra-Low Leakage version is available on request

Specifications and Size :

STP-01R Vndc = 1000V / Vrms = 660Vac / Vpeak = 940V 10s / Vsurge = 1700V 30s/day

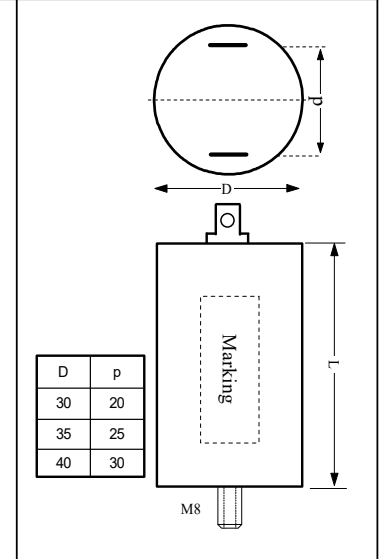
P/N :	Cn uF	Diameter D mm	Length L Mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 85C	Max. Amp 105C
STP-01R474J1000D	0.47	30	55	7	40	620	290	7.5	3.3
STP-01R684J1000D	0.68	35	55	7	40	620	420	7.5	3.3
STP-01R105J1000D	1	35	73	7	50	480	480	14	6.0
STP-01R125J1000D	1.2	35	73	6	50	480	570	14	6.0
STP-01R155J1000D	1.5	40	73	6	50	480	720	14	6.0

STP-01R Vndc = 1200V / Vrms = 800Vac / Vpeak = 1130V 10s / Vsurge = 2000V 30s/day

P/N :	Cn uF	Diameter D mm	Length L Mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 85C	Max. Amp 105C
STP-01R224J1200D	0.22	30	55	7	30	1300	280	7.5	3.3
STP-01R334J1200D	0.33	35	55	7	30	1300	430	7.5	3.3
STP-01R474J1200D	0.47	35	55	6	40	740	340	9	4.0
STP-01R684J1200D	0.68	35	73	6	50	570	380	9	4.0
STP-01R105J1200D	1	40	73	5	50	570	570	9	4.0

STP-01R Vndc = 1350V / Vrms = 900Vac / Vpeak = 1270V 10s / Vsurge = 2300V 30s/day

P/N :	Cn uF	Diameter D mm	Length L Mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 85C	Max. Amp 105C
STP-01R104J1350D	0.1	30	55	7	30	1500	150	4	1.7
STP-01R154J1350D	0.15	30	55	7	30	1500	220	6	2.6
STP-01R224J1350D	0.22	30	55	8	40	850	180	5	2.1
STP-01R334J1350D	0.33	35	55	8	40	850	280	7	3.2
STP-01R474J1350D	0.47	35	73	6	50	660	310	8	3.5
STP-01R684J1350D	0.68	40	73	6	50	660	440	11	5.0
STP-01R105J1350D	1	45	73	5	50	660	660	16	7.0



3.3 High Voltage Snubber Capacitors :

STP-01RNM, STP-01RBM series

This series of capacitors have been specially developed for medium frequency range, with higher RMS Current, higher dv/dt and higher peak current carrying capability.

Applications :

High Voltage SCR Snubber and Commutation, Thyristor controlled rectifier circuits, High Current Snubber circuit, Reduce or eliminate voltage or current spikes, Limit dv/dt & di/dt, Motor Speed Control & Static Drive, Harmonic Filter, Inverter, Converter and high RMS ripple Current application

Properties :

Low ESR, Excellent Frequency Response, High r.m.s. Current Rating, High Pulse Current Ratings (dv/dt), High Voltage Capabilities, High Temperature, High Insulation Resistance, Non inductive, Flame Retardant Construction, Easy Installation

Electrical Connections :

STP-01RBM – with M6 / M8 / M10 Screw Threads

STP-01RNM – with M6 / M8 / M10 Screw Nuts

Electrical Characteristics : (can be customized)

Rated Voltage : 900Vdc – 5,300Vdc / 280Vrms – 1,600Vrms

Capacitance range : 0.25 - 60uF

Capacitance Tolerance : +/-5%; +/-10%

Ripple RMS Current : up to 80A

Equivalent Series Resistance (ESR) : at 23C 100kHz

Testing Voltage Terminal to Terminal : Vsurge 10 sec

Testing Voltage Terminal to Case : 4500Vac at 105C 1min.

Insulation Resistance :250Vdc +25C >= 300,000Mohm

250Vdc +85C >= 50,000Mohm

250Vdc +105C >= 5,000Mohm

Reference Standard : IEC61071

Operate Temperature : +70C / +85C / +105C

Expected Service Life : 30,000 hours at rated Vac +70C /+85C / +105C

60,000 hours at rated Vdc +70C / +85C / +105C

Accelerated Life : 1.25 x rated AC voltage at +85C / +105C 2,000 hours

Ultra-Low Leakage version is available on request

Specifications and Size :

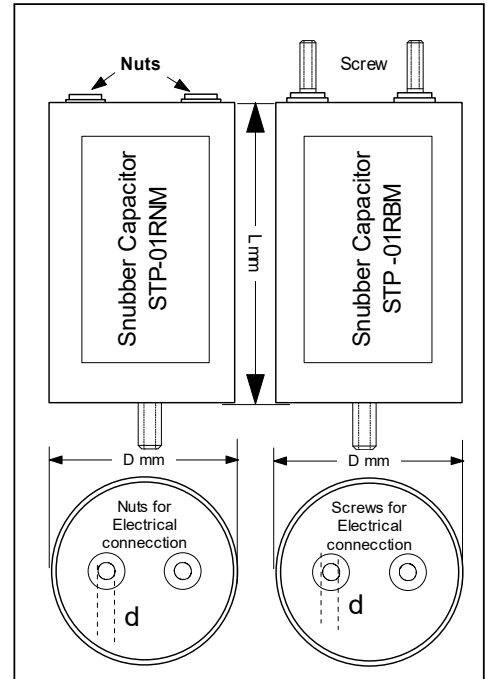
STP-01RNM Vndc = 900V / Vrms = 280Vac / Vpeak = 400V 10s / Vsurge = 1440V 10s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100kHz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STP-01RNM225J900D	2.2	65	91	2.2	20	720	1500	35	11	7	M6
STP-01RNM335J900D	3.3	65	87	2.4	20	400	1300	30	9	6	M6
STP-01RNM475J900D	4.7	65	92	2.3	20	400	1800	35	11	7	M6
STP-01RNM685J900D	6.8	90	94	2.0	20	300	2000	40	12	8	M6
STP-01RNM106J900D	10	90	104	1.9	20	300	3000	45	14	9	M6
STP-01RNM156J900D	15	90	102	1.7	20	250	3700	50	15	10	M8
STP-01RNM226J900D	22	90	150	2.0	35	250	5500	60	24	15	M8
STP-01RNM336J900D	33	90	205	2.0	23	250	8200	80	32	20	M8
STP-01RNM406J900D	40	90	220	1.7	23	250	10000	80	32	20	M8
STP-01RNM506J900D	50	90	278	1.9	18	250	12500	80	32	20	M8
STP-01RNM606J900D	60	90	278	1.7	18	250	15000	80	32	20	M8

STP-01RNM Vndc = 1000V / Vrms = 300Vac / Vpeak = 450V 10s / Vsurge = 1600V 10s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100kHz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STP-01RNM225J1000D	2.2	65	91	2.2	20	880	1900	35	11	7	M6
STP-01RNM335J1000D	3.3	65	87	2.4	20	490	1600	30	9	6	M6
STP-01RNM475J1000D	4.7	65	96	2.0	20	490	2300	40	12	8	M6
STP-01RNM685J1000D	6.8	90	98	2.0	20	400	2720	40	12	8	M6
STP-01RNM755J1000D	7.5	90	100	1.7	20	400	3000	45	14	9	M6
STP-01RNM106J1000D	10	90	100	1.7	20	300	3000	45	14	9	M6
STP-01RNM126J1000D	12	90	144	1.9	29	300	3600	50	20	13	M8
STP-01RNM156J1000D	15	90	146	1.9	29	300	4500	60	24	15	M8
STP-01RNM226J1000D	22	90	162	1.7	35	300	6600	70	28	18	M8
STP-01RNM256J1000D	25	90	196	1.9	23	300	7500	80	32	20	M8
STP-01RNM306J1000D	30	90	211	1.7	23	300	9000	80	32	20	M8
STP-01RNM336J1000D	33	90	220	1.7	23	300	9900	80	32	20	M8
STP-01RNM356J1000D	35	90	254	1.9	18	300	10500	80	32	20	M8
STP-01RNM406J1000D	40	90	266	1.7	18	300	12000	80	32	20	M8

For other Capacitance, Voltage, dv/dt, Peak Current and RMS Current not listed, please contact us for a suggestion.



STP-01RNM V_{ndc} = 1300V / V_{rms} = 400Vac / V_{peak} = 580V 10s / V_{surge} = 2100V 10s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STP-01RNM225J1300D	2.2	65	88	2.3	20	680	1500	30	9	6	M6
STP-01RNM335J1300D	3.3	90	102	1.7	20	520	1700	40	12	8	M6
STP-01RNM475J1300D	4.7	90	101	1.8	20	520	2400	45	14	9	M6
STP-01RNM685J1300D	6.8	90	140	2.2	25	520	3500	50	20	13	M8
STP-01RNM755J1300D	7.5	90	146	1.9	29	520	3900	50	20	13	M8
STP-01RNM106J1300D	10	90	146	1.9	35	400	4000	55	22	14	M8
STP-01RNM126J1300D	12	90	156	1.7	35	400	4800	60	24	15	M8
STP-01RNM156J1300D	15	90	196	1.9	23	400	6000	70	28	18	M8
STP-01RNM206J1300D	20	90	246	1.9	18	400	8000	80	32	20	M8
STP-01RNM226J1300D	22	90	258	1.7	18	400	8800	80	32	20	M8
STP-01RNM256J1300D	25	90	274	1.7	18	400	10000	80	32	20	M8

STP-01RNM V_{ndc} = 1500V / V_{rms} = 450Vac / V_{peak} = 640V 10s / V_{surge} = 2400V 10s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STP-01RNM225J1500D	2.2	90	100	1.9	20	660	1400	35	11	7	M6
STP-01RNM335J1500D	3.3	90	102	1.7	20	660	2100	40	12	8	M6
STP-01RNM405J1500D	4	90	101	1.7	20	500	2000	40	12	8	M6
STP-01RNM455J1500D	4.5	90	104	1.7	20	500	2250	45	14	9	M6
STP-01RNM685J1500D	6.8	90	160	1.7	29	500	3400	55	22	14	M8
STP-01RNM755J1500D	7.5	90	154	1.8	35	500	3700	55	22	14	M8
STP-01RNM106J1500D	10	90	214	1.8	19	500	5000	70	28	18	M8
STP-01RNM126J1500D	12	90	211	1.7	23	500	6000	70	28	18	M8
STP-01RNM156J1500D	15	90	262	1.8	18	500	7500	80	32	20	M8
STP-01RNM186J1500D	18	90	278	1.7	18	500	9000	80	32	20	M8

STP-01RNM V_{ndc} = 1700V / V_{rms} = 530Vac / V_{peak} = 750V 10s / V_{surge} = 2720V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STP-01RNM225K1700D	2.2	65	105	1.8	25	1200	2600	50	37	25	M6
STP-01RNM255K1700D	2.5	65	125	2.0	35	680	1700	45	33	22	M6
STP-01RNM305K1700D	3	65	125	2.3	35	680	2000	45	33	22	M6
STP-01RNM405K1700D	4	65	145	2.2	40	520	2100	45	33	22	M6
STP-01RNM505K1700D	5	65	165	2.3	50	400	2000	45	33	22	M6
STP-01RNM605K1700D	6	65	165	1.9	50	400	2400	55	40	26	M8

STP-01RNM V_{ndc} = 1800V / V_{rms} = 540Vac / V_{peak} = 760V 10s / V_{surge} = 2900V 10s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STP-01RNM225J1800D	2.2	90	100	1.9	20	800	1700	35	30	15	M6
STP-01RNM335J1800D	3.3	90	140	2.5	29	800	2600	45	30	17	M6
STP-01RNM475J1800D	4.7	90	146	2.0	35	620	2900	45	30	17	M6
STP-01RNM685J1800D	6.8	90	196	2.0	23	620	4200	55	35	20	M8
STP-01RNM805J1800D	8	90	205	1.8	23	620	4900	55	40	25	M8
STP-01RNM106J1800D	10	90	250	1.8	18	620	6200	60	45	30	M8
STP-01RNM126J1800D	12	90	270	1.7	18	620	7400	70	60	35	M8

STP-01RNM V_{ndc} = 2700V / V_{rms} = 770Vac / V_{peak} = 1100V 10s / V_{surge} = 4350V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STP-01RNM205K2700D	2	65	165	2.4	50	1000	2000	35	26	17	M6
STP-01RNM255K2700D	2.5	65	185	2.4	60	800	2000	35	26	17	M6
STP-01RNM335K2700D	3.3	65	225	2.3	75	600	1980	35	26	17	M6
STP-01RNM405K2700D	4	65	225	1.9	75	600	2400	40	30	20	M6

STP-01RNM V_{ndc} = 3100V / V_{rms} = 900Vac / V_{peak} = 1300V 10s / V_{surge} = 5000V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STP-01RNM155K3100D	1.5	65	165	2.4	50	1320	1900	30	22	15	M6
STP-01RNM205K3100D	2	65	185	2.2	60	1000	2000	30	22	15	M6
STP-01RNM225K3100D	2.2	65	185	2.0	60	1000	2200	30	22	15	M6
STP-01RNM255K3100D	2.5	65	185	1.8	60	1000	2500	35	26	17	M6
STP-01RNM305K3100D	3	65	225	1.9	75	800	2400	35	26	17	M6
STP-01RNM335K3100D	3.3	90	225	1.8	75	800	2600	35	26	17	M6
STP-01RNM355K3100D	3.5	90	225	1.7	75	800	2800	40	30	20	M6

For other Capacitance, Voltage, dv/dt, Peak Current and RMS Current not listed, please contact us for a suggestion.

STP-01RNM V_{ndc} = 3600V / V_{rms} = 1100Vac / V_{peak} = 1600V 10s / V_{surge} = 5760V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STP-01RNM155K3600D	1.5	65	205	2.4	70	1355	2000	35	24	16	M6
STP-01RNM205K3600D	2	65	245	2.5	85	1000	2000	35	25	17	M6
STP-01RNM255K3600D	2.5	65	285	2.4	100	800	2000	35	24	16	M6
STP-01RNM305K3600D	3	65	285	1.9	100	800	2400	40	30	20	M6

STP-01RNM V_{ndc} = 4500V / V_{rms} = 1350Vac / V_{peak} = 1950V 10s / V_{surge} = 7200V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STP-01RNM254K4500D	0.25	65	135	3.2	35	5000	1200	15	12	8	M6
STP-01RNM504K4500D	0.5	65	165	2.7	50	2900	1400	15	13	8	M6
STP-01RNM754K4500D	0.75	65	165	1.9	50	2900	2100	25	19	12	M6
STP-01RNM105K4500D	1	65	185	1.8	60	2200	2200	25	20	13	M6
STP-01RNM125K4500D	1.2	65	225	1.9	75	1700	2000	25	19	12	M6
STP-01RNM155K4500D	1.5	90	225	1.6	75	1700	2500	30	23	15	M6

STP-01RNM V_{ndc} = 5300V / V_{rms} = 1600Vac / V_{peak} = 2300V 10s / V_{surge} = 8500V 30s/day

P/N :	C _n uF	Diameter D mm	Length L mm	ESR mohm 100khz	ESL nH	dv/dt v/us	Peak Current I _{peak} A	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C	d (mm)
STP-01RNM254K5300D	0.25	65	135	2.4	35	7000	1700	19	14	9	M6
STP-01RNM504K5300D	0.5	65	165	2.0	50	3900	1900	21	16	10	M6
STP-01RNM754K5300D	0.75	65	225	2.4	75	2300	1700	19	14	9	M6
STP-01RNM105K5300D	1	90	225	1.8	75	2300	2300	25	19	12	M6

For other Capacitance, Voltage, dv/dt, Peak Current and RMS Current not listed, please contact us for a suggestion.

3.4 High Voltage Snubber Capacitors :

STP-01RFT, STP-01RAN, STP-01RFN, STP-01RFB series

This series of capacitors have been specially developed for medium frequency range, with higher RMS Current, higher dv/dt and higher peak current carrying capability.

Applications :

High Voltage SCR Snubber and Commutation, Thyristor controlled rectifier circuits, High Current Snubber circuit, Reduce or eliminate voltage or current spikes, Limit dv/dt & di/dt, Motor Speed Control & Static Drive, Harmonic Filter, Inverter, Converter, AC Filter and high RMS ripple Current application

Properties :

Low ESR, Excellent Frequency Response, High r.m.s. Current Rating, High Pulse Current Ratings (dv/dt), High Voltage Capabilities, High Temperature, High Insulation Resistance, Non inductive, Flame Retardant Construction, Easy Installation

Electrical Characteristics : (can be customized)

STP-01RFT – with a Screw Bolt and a Tab-Terminal

STP-01RAN – with Screw Nut x 2

STP-01RFN – with M6 Screw Nut + Screw Bolt

STP-01RFB – with M6 Screw Bolt x 2

STP-01RBC – with M6 Screw Bolt + a lead wire

STP-01RNC – with M6 Screw Nut + a lead wire

Capacitance range : 0.075uF – 10uF

Rated Voltage range : 350 – 4200Vrms / 1300 – 18KVndc

Peak Current : up to 5250App

Ripple RMS Current : up to 60A

Equivalent Series Resistance (ESR) : at 23C 100kHz

Testing Voltage Terminal to Terminal : Vsurge 10 sec

Testing Voltage Terminal to Case: 5,000Vac 105C 1min.

Insulation Resistance :250Vdc +25C >= 300,000Mohm

250Vdc +85C >= 50,000Mohm

250Vdc +105C >= 5,000Mohm

Reference Standard : IEC61071

Operate Temperature : +70C / +85C / +105C

Ultra-Low Leakage version is available on request

Specifications and Size :

STP-01Rxx : Vndc = 1300V / Vrms = 350Vac / Vpeak = 500V 10s / Vsurge = 2080V 15s/day

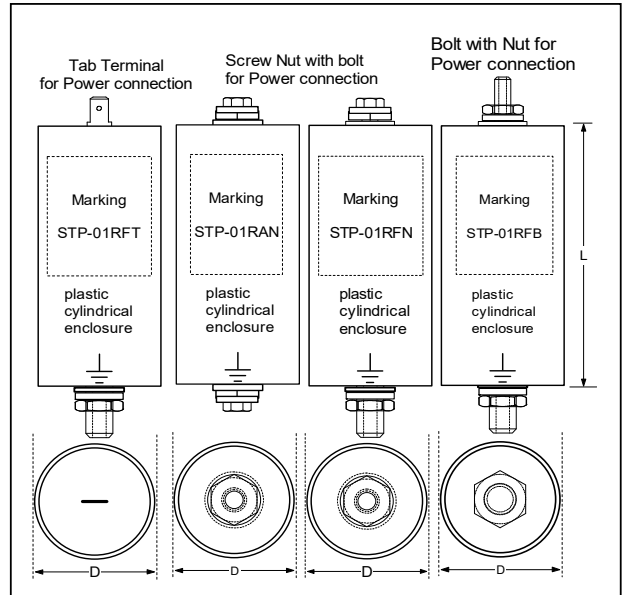
P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
STP-01Rxx305K1300D	3	65	130	500	1500	20	3.1	40	28	20
STP-01Rxx405K1300D	4	65	155	500	2000	22	2.8	40	28	20
STP-01Rxx505K1300D	5	90	130	500	2500	20	2.6	50	35	25
STP-01Rxx605K1300D	6	90	130	500	3000	20	2.4	55	38	28
STP-01Rxx805K1300D	8	90	155	400	3200	22	2.1	55	38	28
STP-01Rxx106K1300D	10	90	155	400	4000	22	1.8	60	40	30

STP-01Rxx : Vndc = 1600V / Vrms = 430Vac / Vpeak = 620V 10s / Vsurge = 2560V 15s/day

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
STP-01Rxx504K1600D	0.5	65	130	1400	700	20	3.3	20	15	12
STP-01Rxx105K1600D	1	65	130	1400	1400	20	3.1	25	18	15
STP-01Rxx155K1600D	1.5	65	130	1400	2100	20	1.9	30	20	18
STP-01Rxx205K1600D	2	65	155	1000	2000	22	1.8	30	20	18
STP-01Rxx225K1600D	2.2	65	155	1000	2200	22	1.8	30	20	18
STP-01Rxx255K1600D	2.5	90	130	1400	3500	20	1.7	40	30	22
STP-01Rxx305K1600D	3	90	155	1000	3000	22	1.6	40	30	22
STP-01Rxx405K1600D	4	90	155	1000	4000	22	1.3	50	35	25

STP-01Rxx : Vndc = 2500V / Vrms = 660Vac / Vpeak = 940V 10s / Vsurge = 4000V 15s/day

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
STP-01Rxx504K2500D	0.5	65	130	2500	1250	20	2.9	20	15	12
STP-01Rxx105K2500D	1	65	130	2500	2500	20	2.7	25	18	15
STP-01Rxx155K2500D	1.5	90	130	2500	3750	20	2.4	35	25	18
STP-01Rxx205K2500D	2	90	130	2500	5000	20	2.1	50	35	25
STP-01Rxx225K2500D	2.2	90	155	1900	4180	22	1.9	50	35	25
STP-01Rxx255K2500D	2.5	90	130	1900	4750	22	1.4	60	40	30



For other Capacitance, Voltage, dv/dt, Peak Current and RMS Current not listed, please contact us for a suggestion.

STP-01Rxx : Vndc = 3300V / Vrms = 880Vac / Vpeak = 1250V 10s / Vsurge = 5200V 15s/day

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
STP-01Rxx334K3300D	0.33	65	190	3300	1089	20	3.1	20	15	12
STP-01Rxx504K3300D	0.5	65	190	3300	1650	20	2.9	20	15	12
STP-01Rxx105K3300D	1	90	190	3300	3300	20	2.7	35	25	18
STP-01Rxx125K3300D	1.2	90	190	3300	3960	20	2.4	40	28	20
STP-01Rxx155K3300D	1.5	90	240	2500	3750	22	2.1	40	28	20
STP-01Rxx205K3300D	2	90	240	2500	5000	22	1.9	55	38	28

STP-01Rxx : Vndc = 3900V / Vrms = 1030Vac / Vpeak = 1470V 10s / Vsurge = 6200V 15s/day

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STP-01Rxx254K3900D	0.25	65	102	1600	400	60	6.0	15	12
STP-01Rxx334K3900D	0.33	65	102	1600	528	60	5.4	15	12
STP-01Rxx504K3900D	0.5	65	102	1600	800	70	5	18	15
STP-01Rxx684K3900D	0.68	65	102	1600	1088	70	4.6	25	20
STP-01Rxx754K3900D	0.75	65	102	1600	1200	70	4.2	25	20
STP-01Rxx824K3900D	0.82	65	102	1600	1312	70	3.7	25	20
STP-01Rxx105K3900D	1	90	139	1600	1600	70	3.3	30	25
STP-01Rxx125K3900D	1.2	90	139	1600	1920	70	2.8	30	25
STP-01Rxx155K3900D	1.5	90	139	1600	2400	70	2.5	35	30

STP-01Rxx : Vndc = 4600V / Vrms = 1200Vac / Vpeak = 1700V 10s / Vsurge = 7300V 15s/day

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
STP-01Rxx254K4600D	0.25	65	240	4600	1150	20	3.2	25	18	13
STP-01Rxx334K4600D	0.33	65	240	4600	1518	20	3.1	25	18	13
STP-01Rxx504K4600D	0.5	90	240	4600	2300	20	2.9	30	20	15
STP-01Rxx754K4600D	0.75	90	240	4600	3450	20	2.8	35	25	18
STP-01Rxx105K4600D	1	90	240	4600	4600	20	2.6	40	28	22
STP-01Rxx125K4600D	1.2	90	295	3500	4200	22	2.4	40	28	22
STP-01Rxx155K4600D	1.5	90	295	3500	5250	22	2.1	50	35	25

STP-01Rxx : Vndc = 4700V / Vrms = 1200Vac / Vpeak = 1700V 10s / Vsurge = 7500V 15s/day

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STP-01Rxx254K4700D	0.25	65	139	1900	475	70	6.3	15	10
STP-01Rxx334K4700D	0.33	65	139	1900	627	70	5.6	15	10
STP-01Rxx504K4700D	0.5	65	139	1900	950	70	5.1	25	20
STP-01Rxx684K4700D	0.68	90	139	1900	1292	70	4.6	25	20
STP-01Rxx754K4700D	0.75	90	139	1900	1425	70	4	30	25
STP-01Rxx824K4700D	0.82	90	139	1900	1558	70	3.7	30	25
STP-01Rxx105K4700D	1	90	139	1900	1900	70	3.4	35	30
STP-01Rxx125K4700D	1.2	90	139	1900	2280	70	3	35	30

STP-01Rxx : Vndc = 5900V / Vrms = 1400Vac / Vpeak = 2100V 10s / Vsurge = 9400V 15s/day

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
STP-01Rxx224K5900D	0.22	65	295	5900	1298	20	3.3	20	15	10
STP-01Rxx254K5900D	0.25	65	295	5900	1475	20	3.2	25	18	13
STP-01Rxx334K5900D	0.33	65	295	5900	1947	20	3.1	25	18	13
STP-01Rxx504K5900D	0.5	90	295	5900	2950	20	2.9	30	20	16
STP-01Rxx684K5900D	0.68	90	295	5900	4012	20	2.6	35	25	18
STP-01Rxx754K5900D	0.75	90	295	5900	4425	20	2.1	40	28	20

STP-01Rxx : Vndc = 6300V / Vrms = 1620Vac / Vpeak = 2300V 10s / Vsurge = 10080V 15s/day

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STP-01Rxx224K6300D	0.22	65	139	2800	616	70	7	12	10
STP-01Rxx254K6300D	0.25	65	139	2800	700	70	6.0	12	10
STP-01Rxx334K6300D	0.33	65	139	2800	924	70	5.3	15	12
STP-01Rxx504K6300D	0.5	65	139	2800	1400	70	4.8	25	20
STP-01Rxx684K6300D	0.68	90	139	2800	1904	70	4.3	30	25
STP-01Rxx754K6300D	0.75	90	139	2800	2100	70	3.9	30	25
STP-01Rxx824K6300D	0.82	90	139	2800	2296	70	3.5	33	30

For other Capacitance, Voltage, dv/dt, Peak Current and RMS Current not listed, please contact us for a suggestion.

STP-01Rxx : V_{ndc} = 7000V / V_{rms} = 1550Vac / V_{peak} = 2200V 10s / V_{surge} = 11200V 15s/day

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STP-01Rxx254K7000D	0.25	65	165	2600	650	35	5.3	20	15
STP-01Rxx334K7000D	0.33	65	272	2600	858	35	4.8	20	15
STP-01Rxx504K7000D	0.5	90	272	2600	1300	35	4.2	35	30
STP-01Rxx654K7000D	0.65	90	272	2600	1690	35	3.8	45	40
STP-01Rxx754K7000D	0.75	90	215	2600	1950	45	3.4	50	45
STP-01Rxx105K7000D	1	90	215	2600	2600	45	3	50	45

STP-01Rxx : V_{ndc} = 7900V / V_{rms} = 2000Vac / V_{peak} = 2900V 10s / V_{surge} = 12600V 15s/day

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
STP-01Rxx224K7900D	0.22	65	295	9000	1980	22	3.3	20	15	10
STP-01Rxx254K7900D	0.25	65	295	9000	2250	22	3.2	20	15	10
STP-01Rxx334K7900D	0.33	65	295	9000	2970	22	3.1	25	18	13
STP-01Rxx504K7900D	0.5	90	295	9000	4500	22	2.9	30	20	15

STP-01Rxx : V_{ndc} = 7900V / V_{rms} = 2050Vac / V_{peak} = 2900V 10s / V_{surge} = 12160V 15s/day

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STP-01Rxx154K7900D	0.15	65	139	4400	660	70	9	8	7
STP-01Rxx224K7900D-V1	0.22	65	139	4400	968	70	7.6	10	8
STP-01Rxx254K7900D-V1	0.25	65	139	4400	1100	70	6.8	12	10
STP-01Rxx334K7900D-V1	0.33	90	139	4400	1452	70	6.1	15	12
STP-01Rxx504K7900D-V1	0.5	90	139	4400	2200	70	5.2	25	20

STP-01Rxx : V_{ndc} = 8000V / V_{rms} = 1700Vac / V_{peak} = 2400V 10s / V_{surge} = 11500V 15s/day

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STP-01Rxx224K8000D	0.22	65	215	3500	770	45	5.5	22	18
STP-01Rxx254K8000D	0.25	65	215	3500	875	45	4.9	22	18
STP-01Rxx334K8000D	0.33	65	215	3500	1155	45	4.4	25	20
STP-01Rxx504K8000D	0.5	65	215	3500	1750	45	4.1	35	30
STP-01Rxx654K8000D	0.65	90	215	3500	2275	45	3.6	40	35
STP-01Rxx754K8000D	0.75	90	215	3500	2625	45	3.2	50	45
STP-01Rxx105K8000D	1	90	215	3500	3500	45	2.9	60	55

STP-01Rxx : V_{ndc} = 8000V / V_{rms} = 1900Vac / V_{peak} = 2700V 10s / V_{surge} = 12800V 15s/day

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STP-01Rxx224K8000D	0.15	65	215	5000	750	45	6	15	13
STP-01Rxx204K8000D	0.2	65	215	5000	1000	45	5.4	18	15
STP-01Rxx224K8000D-V1	0.22	65	215	5000	1100	45	4.7	20	17
STP-01Rxx254K8000D-V1	0.25	65	215	5000	1250	45	4.2	25	20
STP-01Rxx334K8000D-V1	0.33	65	215	5000	1650	45	3.8	25	22
STP-01Rxx504K8000D-V1	0.5	90	215	5000	2500	45	3.4	40	35
STP-01Rxx654K8000D-V1	0.65	90	215	5000	3250	45	3.1	50	45
STP-01Rxx754K8000D-V1	0.75	90	215	5000	3750	45	2.8	50	45

STP-01Rxx : V_{ndc} = 9200V / V_{rms} = 2400Vac / V_{peak} = 3400V 10s / V_{surge} = 14700V 15s/day

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
STP-01Rxx104K9200D	0.1	65	295	13600	1360	15	4.5	20	15	10
STP-01Rxx124K9200D	0.12	65	295	13600	1632	15	3.8	20	15	10
STP-01Rxx154K9200D	0.15	90	295	13600	2040	15	3.2	25	20	15
STP-01Rxx204K9200D	0.2	90	295	13600	2720	15	2.9	30	25	20
STP-01Rxx224K9200D	0.22	90	295	13600	2992	15	2.6	35	30	25
STP-01Rxx254K9200D	0.25	90	295	13600	3400	15	2.4	35	30	25

STP-01Rxx : V_{ndc} = 9500V / V_{rms} = 2470Vac / V_{peak} = 3500V 10s / V_{surge} = 15200V 15s/day

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STP-01Rxx104K9500D	0.1	65	196	4800	480	75	10	8	7
STP-01Rxx124K9500D	0.12	65	196	4800	576	75	9	8	7
STP-01Rxx154K9500D	0.15	65	196	4800	720	75	8.2	8	7
STP-01Rxx224K9500D	0.22	90	196	4800	1056	75	7.3	12	10
STP-01Rxx254K9500D	0.25	90	196	4800	1200	75	6.5	15	12
STP-01Rxx334K9500D	0.33	90	196	4800	1584	75	5.9	20	15

STP-01Rxx : Vndc = 10000V / Vrms = 2400Vac / Vpeak = 3400V 10s / Vsurge = 16000V 15s/day

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STP-01Rxx124K10kD	0.12	65	262	5800	696	60	6.2	15	13
STP-01Rxx154K10kD	0.15	65	262	5800	870	60	5.7	15	13
STP-01Rxx204K10kD	0.2	65	262	5800	1160	60	5	20	17
STP-01Rxx224K10kD	0.22	65	262	5800	1276	60	4.5	20	17
STP-01Rxx254K10kD	0.25	65	262	5800	1450	60	4	25	22
STP-01Rxx334K10kD	0.33	90	262	5800	1914	60	3.7	30	25
STP-01Rxx504K10kD	0.5	90	262	5800	2900	60	3.2	45	40
STP-01Rxx654K10kD	0.65	90	262	5800	3770	60	3.0	50	45

STP-01Rxx : Vndc = 11900V / Vrms = 3100Vac / Vpeak = 4400V 10s / Vsurge = 19040V 15s/day

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STP-01Rxx753K11900D	0.075	65	272	6100	458	90	12	7	6
STP-01Rxx104K11900D	0.1	65	272	6100	610	90	10.5	9	7
STP-01Rxx124K11900D	0.12	65	272	6100	732	90	9.6	10	8
STP-01Rxx154K11900D	0.15	90	272	6100	915	90	8.7	12	10
STP-01Rxx204K11900D	0.2	90	272	6100	1220	90	7.6	12	10
STP-01Rxx224K11900D	0.22	90	272	6100	1342	90	6.8	18	15
STP-01Rxx254K11900D	0.25	90	272	6100	1525	90	6.2	18	15

STP-01Rxx : Vndc = 12000V / Vrms = 2900Vac / Vpeak = 4100V 10s / Vsurge = 19000V 15s/day

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STP-01Rxx104K12kD	0.1	65	295	7300	730	70	6.5	15	13
STP-01Rxx124K12kD	0.12	65	295	7300	876	70	5.9	15	13
STP-01Rxx154K12kD	0.15	65	295	7300	1095	70	5.3	20	17
STP-01Rxx204K12kD	0.2	65	295	7300	1460	70	4.7	20	17
STP-01Rxx224K12kD	0.22	65	295	7300	1606	70	4.3	20	17
STP-01Rxx254K12kD	0.25	90	295	7300	1825	70	3.9	30	25
STP-01Rxx334K12kD	0.33	90	295	7300	2409	70	3.6	40	25
STP-01Rxx504K12kD	0.5	90	295	7300	3650	70	3.1	50	45

STP-01Rxx : Vndc = 17000V / Vrms = 4400Vac / Vpeak = 6300V 10s / Vsurge = 27200V 15s/day

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STP-01Rxx753K17kD	0.075	65	272	8200	615	90	13	8	7
STP-01Rxx104K17kD	0.1	65	272	8200	820	90	11.2	10	8
STP-01Rxx124K17kD	0.12	65	272	8200	984	90	10	12	10
STP-01Rxx154K17kD	0.15	90	272	8200	1230	90	9	15	12
STP-01Rxx204K17kD	0.2	90	272	8200	1640	90	7.7	15	12
STP-01Rxx224K17kD	0.22	90	272	8200	1804	90	6.9	20	15
STP-01Rxx254K17kD	0.25	90	272	8200	2050	90	6.1	25	20

STP-01Rxx : Vndc = 18000V / Vrms = 4200Vac / Vpeak = 6000V 10s / Vsurge = 28800V 15s/day

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STP-01Rxx104K18kD	0.1	65	295	10900	1090	80	6.2	20	17
STP-01Rxx124K18kD	0.12	65	295	10900	1308	80	5.6	20	17
STP-01Rxx154K18kD	0.15	90	295	10900	1635	80	5	25	20
STP-01Rxx204K18kD	0.2	90	295	10900	2180	80	4.5	30	25
STP-01Rxx224K18kD	0.22	90	295	10900	2398	80	4	35	30
STP-01Rxx254K18kD	0.25	90	295	10900	2725	80	3.4	40	35

For other Capacitance, Voltage, dv/dt, Peak Current and RMS Current not listed, please contact us for a suggestion.

3.5.1 Snubber Capacitors – IGBT SMKP2-L series

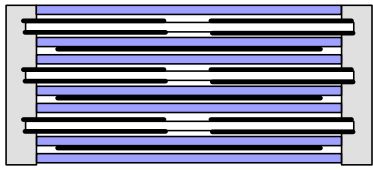
Applications :

For protection against voltage and current transients in IGBT modules and applications where high dv/dt is encountered

Construction :

- Low inductance construction
- Flame retardant plastic case and Epoxy Resin UL94-V0
- High Current carrying capacity Tinned Terminals for direct mounting the capacitor to IGBT module
- other Terminals also available

Construction : SMKP2-series



Electrical Characteristics :

Capacitance : 0.1uF - 3uF at 1kHz +25C

Capacitance Tolerance : +/-5%(J), +/-10% (K)

Rated Voltage Ur	1000Vdc	1200Vdc	1600Vdc	2000Vdc
	500Vac	550Vac	630Vac	650Vac

Test Voltage : between Terminals :1.6xUr Vdc 60s +85C / +105C
Terminals to Case: 3kVac 60s at +25C / +105C

Ripple RMS Current : up to 32A

Rated Temperature : +85C / +105C

Service Life : 30,000 hours at rated Vac 70C
60,000 hours at rated Vdc 70C

Accelerated Life : 1.25 x rated Vac at 85C for 3,000 hours
1.25 x rated Vac at 105C for 2,000 hours

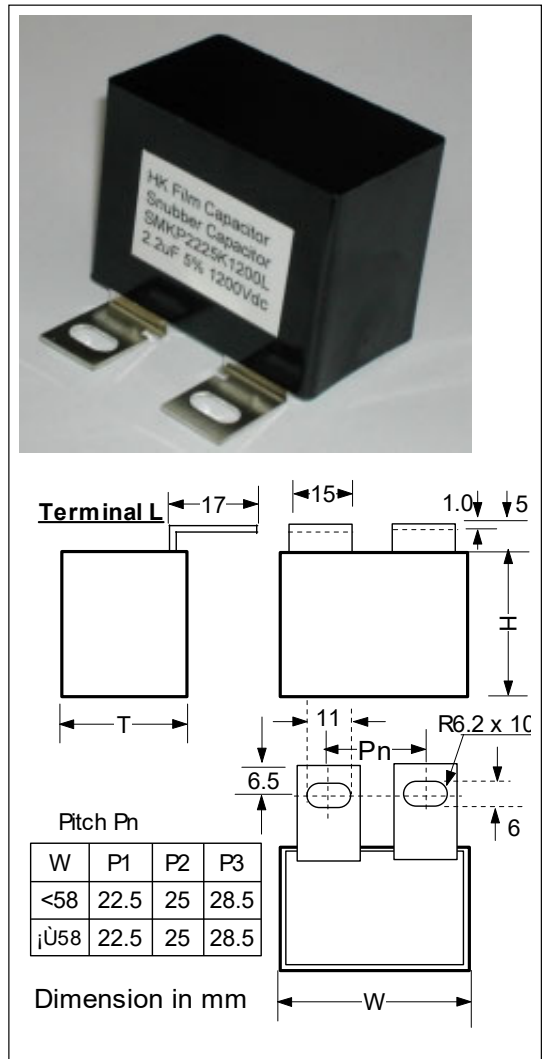
Equivalent Series Resistance ESR : see item table

Equivalent Series Inductance ESL : < 22nH

Insulation Resistance : 250Vdc +25C >= 300,000Mohm
250Vdc+85C >= 50,000Mohm
250Vdc+105C >= 5,000Mohm

Specifications and Size :

P/N	Cap uF	Voltage		dV/dt V/us	Ipeak A	ESR 100kHz 25C m ohm	Max Amp 55C A	Dimension mm +/-1mm W x H x T
		Vdc	Vac					
SMKP2-154X1000DL	0.15	1000	500	800	120	9.1	8.0	45 x 32 x 22
SMKP2-224X1000DL	0.22			800	170	8.5	9.0	45 x 32 x 22
SMKP2-334X1000DL	0.33			800	260	7.6	11	45 x 32 x 22
SMKP2-474X1000DL	0.47			480	220	7.1	12	45 x 32 x 22
SMKP2-564X1000DL	0.56			480	270	6.9	14	45 x 32 x 22
SMKP2-684X1000DL	0.68			480	320	6.3	14	45 x 32 x 22
SMKP2-754X1000DL	0.75			480	360	5.6	15	45 x 32 x 22
SMKP2-105X1000DL	1.0			480	480	4.4	17	51 x 36 x 25
SMKP2-125X1000DL	1.2			480	570	3.6	19	51 x 36 x 25
SMKP2-155X1000DL	1.5			480	720	2.7	21	51 x 40 x 30
SMKP2-205X1000DL	2.0			320	640	2.5	25	59 x 45 x 35
SMKP2-225X1000DL	2.2			320	700	2.4	27	59 x 45 x 35
SMKP2-305X1000DL	3.0			320	960	2.2	29	59 x 45 x 35



For other Capacitance, Voltage, dv/dt, Peak Current and RMS Current not listed, please contact us for a suggestion.

Specifications and Size

P/N	Cap	Voltage		dV/dt	Ipeak	ESR 100kHz 25C	Max Amp 55C	Dimension mm +/-1mm
	uF	Vdc	Vac	V/us	A	m ohm	A	W x H x T
SMKP2-154X1200DL	0.15	1200	550	900	130	9.1	8	45 x 32 x 22
SMKP2-224X1200DL	0.22			900	200	8.5	11	45 x 32 x 22
SMKP2-334X1200DL	0.33			900	300	7.6	11	45 x 32 x 22
SMKP2-474X1200DL	0.47			550	250	7.1	13	45 x 32 x 22
SMKP2-564X1200DL	0.56			550	300	6.9	14	45 x 32 x 22
SMKP2-684X1200DL	0.68			550	370	6.3	15	45 x 32 x 22
SMKP2-754X1200DL	0.75			550	410	5.6	17	51 x 36 x 25
SMKP2-105X1200DL	1.0			550	550	4.4	18	51 x 36 x 25
SMKP2-125X1200DL	1.2			550	660	3.6	21	51 x 40 x 30
SMKP2-155X1200DL	1.5			550	820	2.7	23	51 x 40 x 30
SMKP2-205X1200DL	2.0			350	700	2.5	28	59 x 45 x 35
SMKP2-225X1200DL	2.2			350	770	2.4	29	59 x 45 x 35
SMKP2-305X1200DL	3.0			350	1000	2.1	32	59 x 45 x 35
SMKP2-104X1600DL	0.1			1600	630	1000	100	10
SMKP2-154X1600DL	0.15	1000	150			8	11	45 x 32 x 22
SMKP2-224X1600DL	0.22	1000	220			7.5	13	45 x 32 x 22
SMKP2-334X1600DL	0.33	800	260			7.0	14	51 x 36 x 25
SMKP2-474X1600DL	0.47	800	370			6.6	16	51 x 36 x 25
SMKP2-564X1600DL	0.56	800	450			6.2	18	58 x 37 x 32
SMKP2-684X1600DL	0.68	800	540			6.0	19	58 x 37 x 32
SMKP2-754X1600DL	0.75	500	370			5.8	20	58 x 37 x 32
SMKP2-105X1600DL	1.0	500	500			3.2	24	58 x 37 x 32
SMKP2-125X1600DL	1.2	500	600			2.8	25	59 x 45 x 35
SMKP2-104X2000DL	0.1	2000	650			1100	110	8
SMKP2-154X2000DL	0.15			1100	160	7.5	11	45 x 32 x 22
SMKP2-224X2000DL	0.22			850	180	7	14	45 x 32 x 22
SMKP2-334X2000DL	0.33			850	280	6.4	17	51 x 36 x 25
SMKP2-474X2000DL	0.47			850	400	6	19	51 x 40 x 30
SMKP2-564X2000DL	0.56			600	330	5.5	21	58 x 37 x 32
SMKP2-684X2000DL	0.68			600	400	5.0	24	59 x 45 x 35
SMKP2-754X2000DL	0.75			600	450	4.2	25	59 x 45 x 35

Where X is for Capacitance tolerance : J for +/-5%, K for +/-10% and M for +/-20%

For other Capacitance, Voltage, dv/dt, Peak Current and RMS Current not listed, please contact us for a suggestion.

3.5.2 High Voltage IGBT Snubber Capacitors

SMKP2-N series

Applications :

For protection against voltage and current transients in IGBT modules and applications where high dv/dt is encountered

Construction :

- Low inductance construction
- Flame retardant plastic case and Epoxy Resin UL94-V0
- High Current carrying capacity Tinned Terminals for direct mounting the capacitor to IGBT module
- other Terminals also available

Electrical Characteristics :

Capacitance : 0.056uF – 0.75uF at 1kHz +25C

Capacitance Tolerance : +/-5%(J), +/-10% (K)

Rated Voltage : Ur

Vac	850	1000	1200	1300
Vdc	1700	2000	2500	3200

Test Voltage : between Terminals :1.6xUr Vdc 60s +85C / +105C

Terminals to Case: 3kVac 60s at +25C / +105C

Ripple RMS Current : up to 17A

Rated Temperature : +70C / +85C / +105C

Service Life : 30,000 hours at rated Vac 70C

60,000 hours at rated Vdc 70C

Accelerated Life : 1.25 x rated Vac at 85C for 3,000 hours

1.25 x rated Vac at 105C for 2,000 hours

Equivalent Series Resistance ESR : see item table

Support Ultra Low ESR requirement

Equivalent Series Inductance ESL : < 22nH

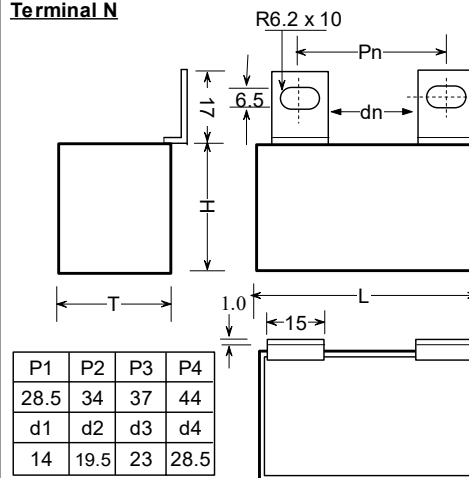
Insulation Resistance : 250Vdc +25C >= 300,000Mohm

250Vdc+85C >= 50,000Mohm

250Vdc+105C >= 5,000Mohm



Terminal N



Specifications and Size :

SMKP2-N : Vac = 850Vac / Vndc = 1700Vdc / Vpeak = 1100V 10s / Vsurge = 2750V 30s/day

P/N :	Cn uF	Width W mm	Height H mm	Thickess L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
SMKP2-254K850AN	0.25	59	47	39	1800	450	12	3.6	11	9	7
SMKP2-354K850AN	0.3	59	47	39	1800	540	12	3.6	13	11	9
SMKP2-334K850AN	0.33	59	47	39	1800	594	12	3.2	15	13	10
SMKP2-474K850AN	0.47	59	47	39	1800	846	12	2.8	15	13	10
SMKP2-564K850AN	0.56	59	55	45	1080	604	16.5	2.8	15	13	10
SMKP2-684K850AN	0.68	59	55	45	1080	734	16.5	2.4	17	15	12
SMKP2-754K850AN	0.75	59	55	45	1080	810	16.5	2.4	17	15	12

SMKP2-N : Vac = 1000Vac / Vndc = 2000Vdc / Vpeak = 1250V 10s / Vsurge = 3200V 30s/day

P/N :	Cn uF	Width W mm	Height H mm	Thickess L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
SMKP2-154K1000AN	0.15	59	47	39	2800	420	12	4.0	9	8	6
SMKP2-204K1000AN	0.2	59	47	39	2800	560	12	4.0	12	11	8
SMKP2-224K1000AN	0.22	59	47	39	2800	616	12	4.0	12	11	8
SMKP2-254K1000AN	0.25	59	47	39	2800	700	12	3.6	15	13	10
SMKP2-334K1000AN	0.33	59	55	45	1680	554	16.5	3.2	12	11	8
SMKP2-474K1000AN	0.47	59	55	45	1680	789	16.5	2.8	16	14	11

For other Capacitance, Voltage, dv/dt, Peak Current and RMS Current not listed, please contact us for a suggestion.

SMKP2-N : Vac = 1200Vac / Vndc = 2500Vdc / Vpeak = 1500V 10s / Vsurge = 4000V 30s/day

P/N :	Cn uF	Width W mm	Height H mm	Thickness L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
SMKP2-104K1200AN	0.1	59	47	39	4000	400	12	3.6	8	7	5
SMKP2-124K1200AN	0.12	59	47	39	4000	480	12	3.2	8	7	5
SMKP2-154K1200AN	0.15	59	47	39	4000	600	12	3.2	11	9	7
SMKP2-224K1200AN	0.22	59	55	45	2400	528	16.5	3.2	11	9	7
SMKP2-254K1200AN	0.25	59	55	45	2400	600	16.5	2.8	11	9	7
SMKP2-334K1200AN	0.33	59	55	45	2400	792	16.5	2.8	15	13	11

SMKP2-N : Vac = 1300Vac / Vndc = 3200Vdc / Vpeak = 1600V 10s / Vsurge = 5100V 30s/day

P/N :	Cn uF	Width W mm	Height H mm	Thickness L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
SMKP2-563K1300AN	0.056	59	47	39	6180	346	12	5.2	5	4	3
SMKP2-683K1300AN	0.068	59	47	39	6180	420	12	4.8	6	5	4
SMKP2-104K1300AN	0.1	59	47	39	6180	618	12	4.0	9	8	6
SMKP2-124K1300AN	0.12	59	47	39	6180	740	12	4.0	11	10	7
SMKP2-154K1300AN	0.15	59	55	45	3720	558	17	3.6	8	8	6
SMKP2-224K1300AN	0.22	59	55	45	3720	818	17	3.6	12	11	8

For other Capacitance, Voltage, dv/dt, Peak Current and RMS Current not listed, please contact us for a suggestion.

3.6 High dv/dt Axial lead Polypropylene Film Capacitors

Snubber Capacitors Axial Lead STP-01Q STP-01QE

Applications :

- Protecting Thyristor against transient voltage and current
- high dv/dt and Pulse Current applications
- SMPS Snubbing circuit
- MMC Capacitors / Multi-Mini Capacitors module

Constructions :

- Axial Lead with Epoxy Resin (UL94-V0)sealed at both ends
- tin plated Copper Wire for PCB soldering
- STP-01QE can have Terminals at the Electrical Wire

Electrical Characteristics :

Capacitance : 0.01uF - 4.7uF at 1kHz +25C

Capacitance Tolerance : +/-5%(J), +/-10% (K)

Voltage Range :

600	850	1000	1200	1600	2000	3000
Vdc	Vdc	Vdc	Vdc	Vdc	Vdc	Vdc
275	450	500	500	630	630	750
Vac	Vac	Vac	Vac	Vac	Vac	Vac

Test Voltage : between Terminals :1.6xUn Vdc for 60s +25C

Dissipation Factor : < 0.1% at 1kHz +25C

Rated Temperature : -20C - +85C

Full rated voltage at 85C, derate linearly to 50% rated voltage at 105C.

Service Life : 30,000 hours at rated Vac 70C

60,000 hours at rated Vdc 70C

Accelerated Life :

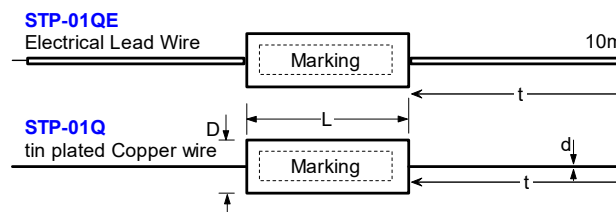
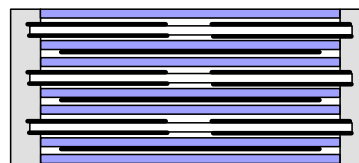
1.25 x rated DC voltage at 85C for 2,000 hours

Insulation Resistance : >100,000Mohm*uF

at +25C 100Vdc 2minute.



Construction :



STP-01Q Specifications and Size : 600Vdc / 275Vac

Cn uF	Length Mm	Diameter mm	Copper Wire d mm	ESR mohm	ESL nH	dv/dt v/us	Ipeak 70C	Max. Amp 70C
0.10	34.0	9.0	0.8	28	19	195	19.5	2.0
0.15	34.0	10.5	1.0	13	20	195	29	4.0
0.22	34.0	11.5	1.0	12	20	195	43	4.0
0.33	34.0	13.5	1.0	9	21	195	64	5.0
0.47	34.0	15.5	1.0	7	22	195	91	7.0
0.68	34.0	18.0	1.0	6	23	195	132	8.0
1.00	34.0	21.0	1.0	6	24	195	195	9.0
1.50	34.0	25.0	1.2	5	26	195	293	10.0
2.00	46.0	23.5	1.2	5	31	128	256	11.0
3.30	54.0	27.0	1.2	4	36	105	346	15.0
4.70	54.0	32.5	1.2	4	38	105	490	16.0

STP-01Q Specifications and Size : 850Vdc / 450Vac

Cn uF	Length Mm	Diameter mm	Copper Wire d mm	ESR mohm	ESL nH	dv/dt v/us	Ipeak 70C	Max. Amp 70C
0.15	34.0	13.0	1.0	8	21	710	106	5.0
0.22	34.0	15.5	1.0	8	22	710	156	6.0
0.33	34.0	18.0	1.0	7	23	710	234	7.0
0.47	34.0	21.0	1.0	5	24	710	333	9.0
0.68	34.0	24.5	1.2	4	26	710	483	12.0
1.0	46.0	22.5	1.2	5	30	400	400	11.0
1.5	46.0	27	1.2	4	32	400	600	14.0
2.0	46.0	31	1.2	3	34	400	800	17.0
2.2	46.0	32	1.2	3	34	400	880	18.0
2.5	46.0	34	1.2	3	35	400	1000	19.0

For other Capacitance, Voltage, dv/dt, Peak Current and RMS Current not listed, please contact us for a suggestion.

Headquarter & Production : HK Film Capacitor Ltd <https://www.filmcapacitor-st.com> e-mail : info@filmcapacitor-st.com

Worldwide Sales Office : HKFC Industrial Pty Ltd <https://www.hkfc-industrial.com> e-mail : enquiry@hkfc-industrial.com

STP-01Q Specifications and Size : 1000Vdc / 500Vac

Cn uF	Length Mm	Diameter mm	Copper Wire d mm	ESR mohm	ESL nH	dv/dt v/us	Ipeak 70C	Max. Amp 70C
0.15	34.0	15.0	1.0	7	22	855	128	6.0
0.22	34.0	17.5	1.0	7	23	855	188	7.0
0.33	34.0	21.0	1.0	6	24	855	280	9.0
0.47	34.0	24.0	1.2	5	26	855	400	10.0
0.68	34.0	28.0	1.2	5	27	855	580	11.0
1.0	46.0	26.0	1.2	5	32	480	480	12.0
1.5	46.0	31.0	1.2	4	34	480	720	15.0
2.0	46.0	36.0	1.2	3	36	480	960	19.0

STP-01Q Specifications and Size : 1200Vdc / 500Vac

Cn uF	Length Mm	Diameter mm	Copper Wire d mm	ESR mohm	ESL nH	dv/dt v/us	Ipeak 70C	Max. Amp 70C
0.10	34.0	15.5	1.0	9	22	1140	114	6.0
0.15	34.0	18.5	1.0	7	23	1140	170	7.0
0.22	34.0	22.0	1.0	7	24	1140	250	8.0
0.33	46.0	20.0	1.0	7	29	640	210	9.0
0.47	46.0	23.0	1.2	7	30	640	300	10.0
0.68	46.0	27.0	1.2	6	32	640	435	11.0
1.0	46.0	33.0	1.2	5	35	640	640	14.0
1.5	54.0	35.0	1.2	4	39	500	750	18.0

STP-01Q Specifications and Size : 1600Vdc / 630Vac

Cn uF	Length Mm	Diameter mm	Copper Wire d mm	ESR mohm	ESL nH	dv/dt v/us	Ipeak 70C	Max. Amp 70C
0.10	34.0	18.0	1.0	7	25	1425	140	7.0
0.15	34.0	22.0	1.0	5	24	1425	210	10
0.22	34.0	26.0	1.2	7	26	1425	310	9.0
0.33	46.0	24.0	1.2	7	31	800	260	10.0
0.47	46.0	28.0	1.2	6	32	800	375	11.0
0.68	46.0	33.0	1.2	6	35	800	540	13.0
1.00	46.0	39.0	1.2	5	37	800	800	16.0
1.50	54.0	42.0	1.2	4	42	625	940	20.0
2.00	64.0	43.0	1.2	3	45	470	940	21.0

STP-01Q Specifications and Size : 2000Vdc / 630Vac

Cn uF	Length Mm	Diameter mm	Copper Wire d mm	ESR mohm	ESL nH	dv/dt v/us	Ipeak 70C	Max. Amp 70C
0.022	34.0	12	1.0	35	6	1710	37	2.0
0.033	34.0	14	1.0	20	21	1710	56	3.0
0.047	34.0	15	1.0	12	22	1710	80	5.0
0.068	34.0	18	1.0	8	23	1710	116	6.0
0.10	34.0	21	1.0	7	24	1710	170	8.0
0.15	46.0	20	1.0	7	29	960	141	8.0
0.22	46.0	22	1.0	8	30	960	210	9.0
0.33	46.0	27	1.2	8	32	960	316	10.0
0.47	46.0	32	1.2	6	34	960	451	13.0
0.56	54.0	31	1.2	7	37	754	420	12.0
0.68	54.0	34	1.2	6	39	754	512	14.0
1.00	54.0	41	1.2	5	42	754	750	17.0
1.50	54.0	47	1.2	5	50	754	450	14.0

STP-01Q Specifications and Size : 3000Vdc / 750Vac

Cn uF	Length Mm	Diameter mm	Copper Wire d mm	ESR mohm	ESL nH	dv/dt v/us	Ipeak 70C	Max. Amp 70C
0.01	34.0	12	1.0	60	20	2500	25	2.0
0.015	34.0	14	1.0	40	21	2500	38	2.0
0.022	34.0	16	1.0	25	22	2500	56	3.0
0.033	34.0	18	1.0	14	23	2500	84	5.0
0.047	46.0	17	1.0	14	28	1440	67	5.0
0.068	46.0	19	1.0	12	29	1440	98	6.0
0.10	46.0	23	1.2	10	30	1440	140	8.0
0.15	46.0	27	1.2	8	32	1440	210	10.0

For other Capacitance, Voltage, dv/dt, Peak Current and RMS Current not listed, please contact us for a suggestion.

3.7 Power RC Snubber Networks : - STRC series

Applications :

Interference suppression; elimination of spark and transient phenomena in power switch and relay; arc suppressing for industrial heavy duty application; electrical automation control, starting, stopping, regulating or protecting electric motors
Transient and dV/dt suppression for power Thyristor and Triacs in snubber circuit
Fan Speed Regulator and Motor Speed Regulator
Suitable for AC and DC voltage application

Constructions :

Supporting different Capacitor Configuration, electrical connections and mounting options so as to increase your design flexibility

Mounting systems :

Cylindrical Plastic Case : with Stud - M8 or without Stud (see P.30)

Box Plastic Case: Screw mounting hole / without Screw mounting hole(see p.33)

Electrical Characteristics :

Capacitance value : 0.1 - 2.0uF

Voltage : 125Vac, 220Vac, 240Vac, 480Vac, 600Vac

Resistance and rate power of the Resistor : customer design, 1/4W - 50W

Temperature range : +85C / +105C

Testing Voltage : : 1.5 x U_n 10sec (can be customized design)

Varistor options is available

Circuits :

connection for Resistor and Capacitor : series, parallel or three phase



The combination of Capacitance value, Voltage, Resistor type, Resistance, Power Rating and Dimension, please contact us for a design suited to your particular needs.

RC Snubber Networks :-class X2 250VAC / 600DC

STRC-X2-series

Switch Contact protection
 Interference suppression of contact
 Transient Suppression
 Long life even when subjected to high frequency and over voltage
 Plastic Case & Epoxy Resin – Flame Retardant meet UL94-V0
Varistor options is available

Electrical Connection :

Flexible wire : UL #1015,105C, AWG#18, 20
 Flexible wire with terminal : Ring, Y or Pin terminal with various size

General Specifications :

Capacitance range : 0.1 – 1.0uF
Capacitance tolerance : +/-5%(J) +/-10% (k)
Resistance range : 22 to 680 ohm 0.5W / 1W (normal values E6 series)
Rated Voltage : 250VAC / 600VDC (inclusive of the superimposed AC component peak value)
Temperature range : +85C / +105C

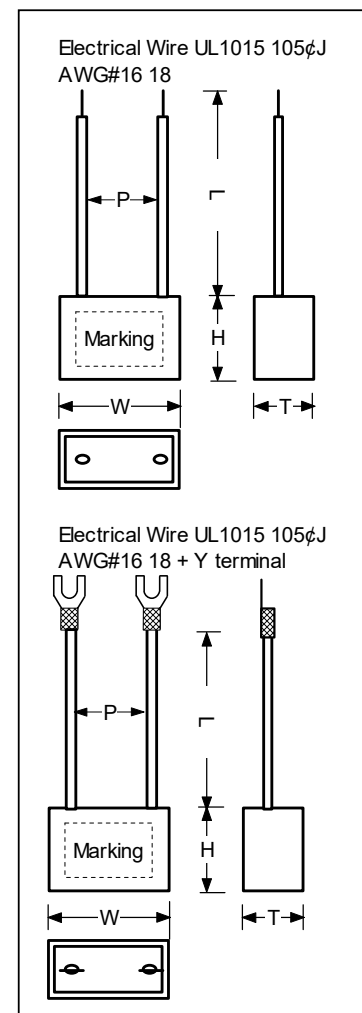
Testing Voltage :

Terminal to Terminal : 2,000VDC 2sec at 25±5C (can be customer design)
 Terminal to Case : 2,500Vac 2sec at 25±5C

Insulation Resistance : > 20,000Mohm

Reference Standard : IEC60068-1 DIN40045 40/85/21

Circuitry : Resistor and Capacitor in series



Dimensions :

Cn uF +/-10%	Resistance ohm +/-5%	Rated Power W	Rated Voltage		Width W mm	Height H mm	Thickness T mm	Pitch P mm	Lead length L mm
			Vac	Vdc					
0.1	22 – 680	1/2 - 1	250	600	26.5	19	10	21	150 or 300
0.22									
0.25									
0.47									
0.5									
1.0	32	30	15	26					

RC Snubber Networks :- 480VAC / 1,000DC

STRC-480 series Switch Contact protection
 Interference suppression of contact
 Transient Suppression
 Long life even when subjected to high frequency and over voltage
 Plastic Case & Epoxy Resin – Flame Retardant meet UL94-V0
 Varistor options is available

Electrical Connection :

Flexible wire : UL #1015, 105°C, AWG#18, 20

Flexible wire with terminal : Ring, Y or Pin terminal with various size

Mounting : M8 stud – Cylindrical type only

General Specifications :

Capacitance range : 0.1 – 1 μ F

Capacitance tolerance : +/-5%(J) +/-10% (k)

Resistance range : 22 to 1kohm 1-10W other value is available

Rated Voltage : 480VAC / 1,000VDC (inclusive of the superimposed AC component peak value)

Temperature range : +85C / +105C

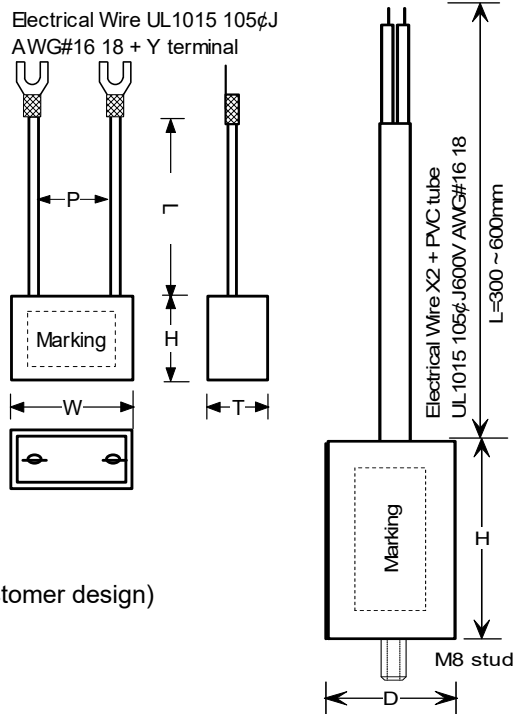
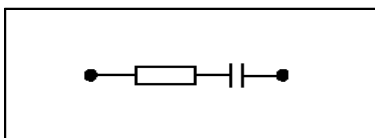
Testing Voltage : T to T : 1.75 x U_n 10sec at 25 ± 5C (can be customer design)

T to Case : 2000Vac 10sec at 25±5C

Insulation Resistance : >10,000Mohm at 250VDC 2min. 23C

Reference Standard : IEC60068-1

Circuitry :



Box – type :

Cn uF +/-5%	Rated Voltage		Resistance ohm ±10%	Rated Power W	Box			Electrical Wire L=mm
	VAC	VDC			W	H	T	
0.1	480	1000	10	1	39	32	22	300 or 600
0.1	480	1000	22	2				
0.1	480	1000	47	2				
0.1	480	1000	47	1				
0.1	480	1000	100	2				
0.1	480	1000	100	3				
0.1	480	1000	220	1				

Cylindrical – type :

Cn uF +/-5%	VAC	VDC	ohm ±10%	W	D	H	L=mm
0.22	480	1000	10	5	45	73	300 or 600
0.25	480	1000	220	5			
0.25	480	1000	50	10			
0.25	480	1000	68	10			
0.25	480	1000	100	10			
0.3	480	1000	100	10			
0.47	480	1000	220	5			
0.47	480	1000	820	10			
0.5	480	1000	15	5			
0.5	480	1000	220	5			
0.5	480	1000	10	10			
0.5	480	1000	75	10			
0.5	480	1000	100	10			
0.5	480	1000	220	10			
1.0	480	1000	10	5			
1.0	480	1000	220	5			

3 Phase RC Snubber Networks : 400VAC - 600VAC

STRCY-xxx and STRCD-xxx series

Applied in parallel with three phase inductive loads (Electrical Motor) to absorb transients Voltage and pulse

EMI filter for Electrical Motor Wye and Delta connection high pulse current handling capacity

Plastic Case & Epoxy Resin – Flame Retardant meet UL94-V0

Varistor options are available

Box and Cylindrical plastic case options

Application :

Transient Voltage Suppressor, EMI Filter and Circuit protection for Three phase Motor, CNC equipment, Magnetic Contactor, Solenoid, Relay and Starter

Electrical Connection :

Flexible wire : UL #1015, 105C, AWG#16, 18

Flexible wire with terminal : Ring, Y or Pin terminal with various size

General Specifications :

Capacitance range : 0.1 – 0.5uF

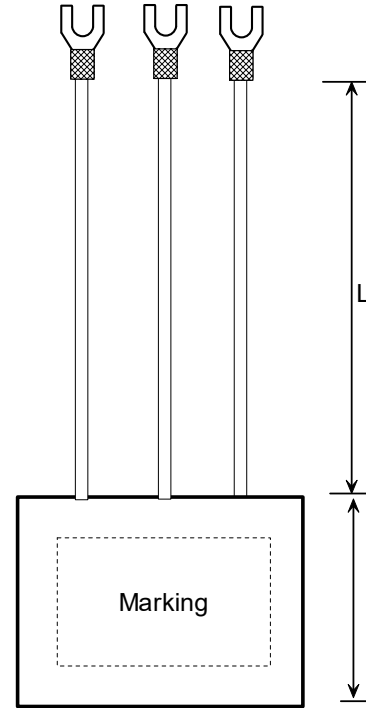
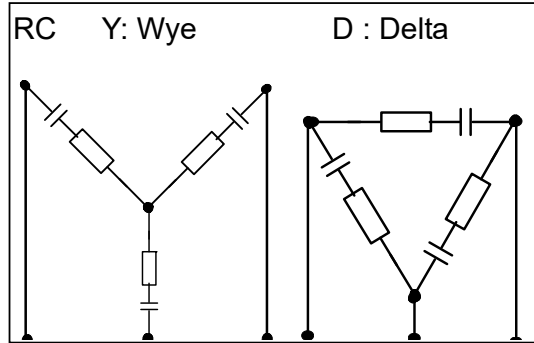
Capacitance tolerance : ±10% (k)

Resistance range : 22 to 820 ohm 3W - other value is available

Rated Voltage : 3 X 400VAC - 600VAC

Temperature range : +85C / +105C

Circuitry :



Delta :

Cn uF	Voltage	Resistor		Box W X H X T	Electrical Wire L in mm
	VAC	ohm +/-10%	rated power W		
0.1	3X400	10~330	3	42 x 38 x 27	300 or 600
0.22		27~330	3		
0.5		22~470	3		

Wye :

Cn uF	Voltage	Resistor		Box W X H X T	Electrical Wire L in mm
	VAC	ohm +/-10%	rated power W		
0.1	3X600	10~330	3	42 x 38 x 27	300 or 600
0.22		27~330	3		
0.5		22~470	3		

3 Phase RC Snubber Networks : 480VAC

STRCY-xxx and STRCD-xxx series

Applied in parallel with three phase inductive loads (Electrical Motor) to absorb transients Voltage and pulse

EMI filter for Electrical Motor Wye and Delta connection

Very High pulse current handling capacity

Plastic Case & Epoxy Resin – Flame Retardant meet UL94-V0

Varistor options are available

Cylindrical plastic case

Application :

Transient Voltage Suppressor, EMI Filter and Circuit protection for Three phase Motor, CNC equipment, Magnetic Contactor, Solenoid, Relay and Starter

Electrical Connection :

Flexible wire : UL #1015,105C, AWG#16, 18

Flexible wire with terminal : Ring, Y or Pin terminal with various size

Mounting :

M8 stud

General Specifications :

Capacitance range : 10uF ~ 100uF

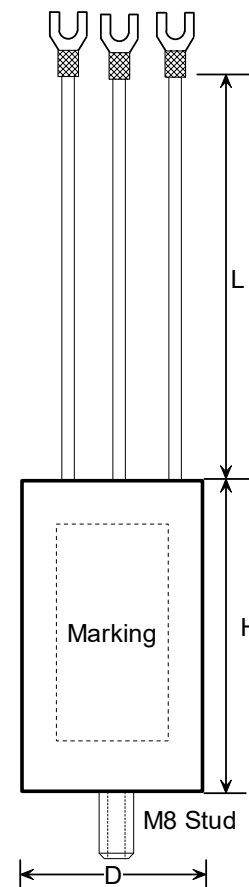
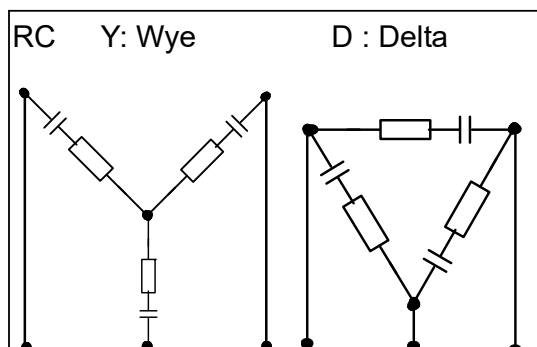
Capacitance tolerance : +/-5%(J) +/-10%(k)

Resistance range : 10 - 680ohm 10W other value is available

Rated Voltage : 3 X 480VAC

Temperature range : +85C / +105C

Circuitry :



Resistor		Capacitor		Size	Electrical Wire
ohm ±10%	Rated Power W	uF	VAC	D x H mm	L in mm
10	10	0.5	480	45 x 73	300 or 600
15					
22					
27					
33					
47					
68					
82					
100					
150					
220					
330					
470					
680					

Transient Voltage Suppressors : 24VAC - 480VAC

STVS-xxx series-Applied in parallel with inductive loads (Electrical Motor) to absorb transients Voltage and pulse

- EMI filter for Electrical Motor
- High pulse current handling capacity
- Varistor** options is available
- Plastic Case & Epoxy Resin – Flame Retardant meet UL94V0
- Box type and Cylindrical available

Application :

Transient Voltage Suppressor, EMI Filter and Circuit protection for Three phase Motor, CNC equipment, Magnetic Contactor, Solenoid, Relay and Starter

Electrical Connection :

Flexible wire : UL #1015, 105°C, AWG#16, 18

Flexible wire with terminal : Ring, Y or Pin terminal with various size

Mounting : M8 stud – Round type only

General Specifications :

Capacitance range : 0.22 – 0.5uF

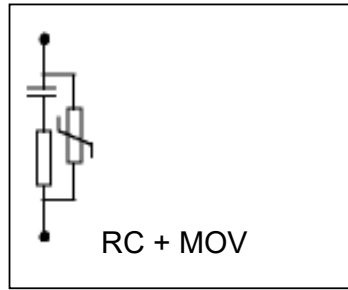
Capacitance tolerance : +/-5%(J) +/-10%(k)

Resistance range : 22 to 820ohm 1/2-10W other valve is available

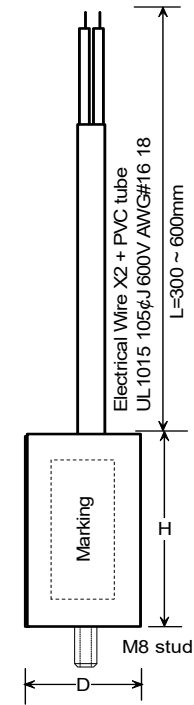
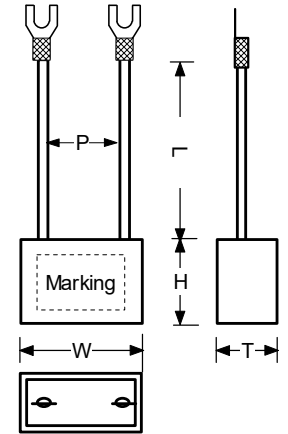
Rated Voltage : 24VAC - 480VAC

Temperature range : +85C / +105C

Circuitry :



Electrical Wire UL1015 105°C J
AWG#16 18 + Y terminal



Dimensions :

Cn uF	Rated Voltage		Resistance		Varistor	Size	Electrical Wire
	VAC	VDC	ohm +/-10%	rated power W		W x H x T D x H	L in mm
0.22	120	200	47	1/2	Customer design	32 x 22 x 11	150 or 300
0.22	250	470	220	1			
0.47	24	50	220	1/2			
0.47	120	600	220	1			
0.5	120	600	100 - 220	1			
0.1	250	1000	47	2			
0.1	275	2000	220	2			
0.47	250	600	100 - 220	2			
0.25	480	1000	470	10			
0.5	480	1000	50 - 220	10			
						45 x 73	

3 Phase Transient Voltage Suppressors : 400VAC - 500VAC

STVSYP-xxx series Applied in parallel with three phase inductive loads (Electrical Motor) to absorb transients Voltage and pulse
 EMI filter for Electrical Motor
 Wye connection
 High pulse current handling capacity
Varistor options is available
 Plastic Case & Epoxy Resin – Flame Retardant meet UL94-V0
 Cylindrical type

Application :

Transient Voltage Suppressor, EMI Filter and Circuit protection for Three phase Motor, CNC equipment, Magnetic Contactor, Solenoid, Relay and Starter

Electrical Connection :

Flexible wire : UL #1015,105C, AWG#16, 18
 Flexible wire with terminal : Ring, Y or Pin terminal with various size

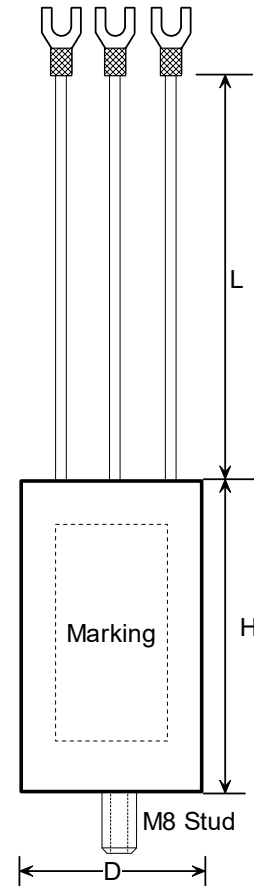
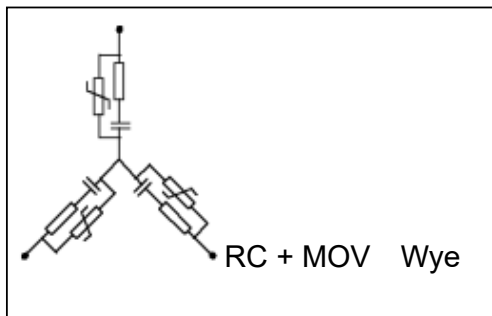
Mounting :

M8 stud

General Specifications :

Capacitance range : 0.22 – 0.5uF
Capacitance tolerance : +/-5%(J) +/-10% (k)
Resistance range : 22 to 820ohm 1/2-10W other value is available
Rated Voltage : 3 X 250VAC - 510VAC
Temperature range : +70C / +105C

Circuitry :



Dimensions :

Resistor		Capacitor		Varistor	Size	Electrical Wire
ohm +/--10%	Rated Power W	uF	VAC		D x H mm	L in mm
10~680	10W	0.22	400	Customer design	65 x 50	300 or 600
		0.47	400			
		0.5	500			

4.1 AC/DC Power Capacitors: ACF series

Applications :

Handling high RMS Current for high energy AC / DC Filtering, Inverter, Switching, high Power UPS, Input/Out filter, High Power Lighting, Transient, Harmonic Damping application

Characteristics :

- Temperature up to 105C
- Dry Construction, no leaking fluids and Flame Retardant
- Large capacitance in small package
- High RMS Current handling capacity and Low ESR and Low Inductance
- Support DC Blocking / Ultra-Low Leakage requirement

Electrical Characteristics :

Capacitance range : 0.68uF – 300uF

Tolerance : +/-10% +/-5% at 25C

rated Voltage :

250Vac – 900Vac / 400Vdc – 1,350Vdc

rated Temperature :

+85C / +105C

Insulation Resistance :

> 50,000Mohm at 500V 105C

Testing Voltage Terminal to Terminal :

300Vac – 900Vac :

1.7 x rated Vac or Vdc 60 seconds at 25C

1.7 x rated Vac or Vdc 30 seconds at 85C

1.7 x rated Vac or Vdc 10 seconds at 105C

Testing Voltage Terminal to Case :

5000Vac at 50/60Hz for 60 seconds at 105C

Thermal Resistance data is available on require

Life Expectancy at rated Voltage :

150,000 hours at 70C

100,000 hours at 85C

50,000 hours at 105C

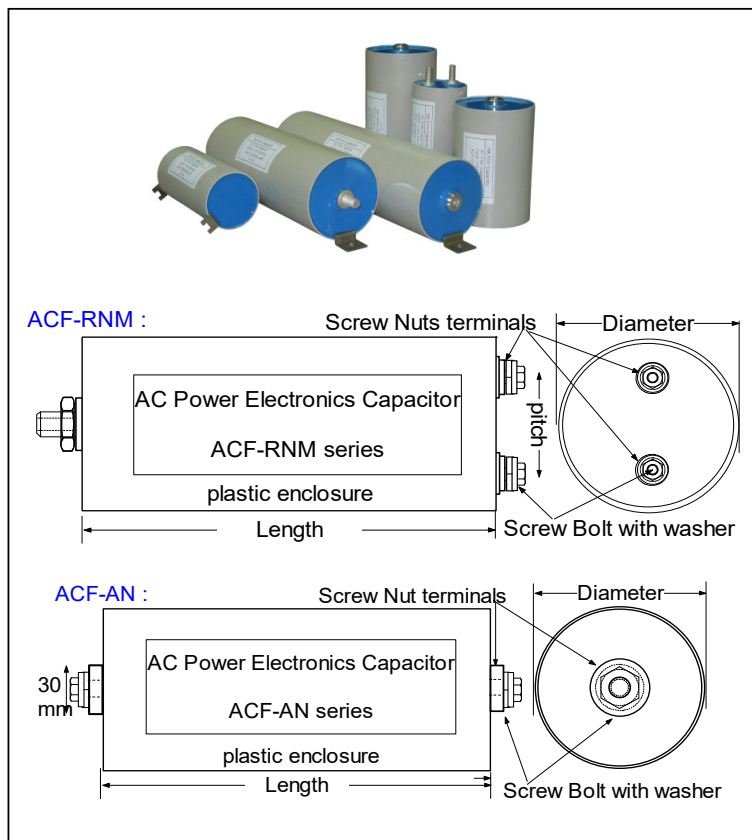
Accelerated Life : 1.25 x Vac at 70C for 30,000 hours

1.25 x Vac at 85C for 10,000 hours

1.25 x Vac at 105C for 2,000 hours

Options : Thermocouple and can be built-in

ACF1-RNM : 250Vac / 400Vdc



P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 55C	Max. Amp 85C	Max. Amp 105C
ACF1-RNM406K250A	40	65	75	50	2100	29	3	49	37	30
ACF1-RNM506K250A	50	65	90	32	1600	45	2	42	32	26
ACF1-RNM606K250A	60	65	90	32	1900	45	1.7	44	33	26
ACF1-RNM686K250A	68	65	90	32	2200	45	1.2	47	35	28
ACF1-RNM756K250A	75	65	95	29	2200	50	1.2	47	35	28
ACF1-RNM107K250A	100	90	90	32	3200	45	1.4	60	45	36
ACF1-RNM117K250A	110	90	90	32	3500	45	1.4	62	47	37
ACF1-RNM127K250A	120	90	95	29	3500	50	1.5	62	47	37
ACF1-RNM157K250A	150	90	110	23	3400	63	1.5	62	47	37
ACF1-RNM257K250A	250	90	190	23	5700	125	1.2	85	65	50
ACF1-RNM307K250A	300	90	195	23	7000	125	1.2	95	73	58

Other Capacitance, Voltage, dv/dt, Current and Terminals is available. Please contact us for a design suited to your particular needs.

ACF2-RNM : 300Vac / 450Vdc

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 55C	Max. Amp 85C	Max. Amp 105C
ACF2-RNM406K300A	40	65	75	63	2500	29	6	17	12	8
ACF2-RNM506K300A	50	65	90	40	2000	45	3.6	14	10	7
ACF2-RNM606K300A	60	65	90	40	2400	45	1.7	21	14	10
ACF2-RNM686K300A	68	65	90	40	2700	45	3.1	23	16	11
ACF2-RNM756K300A	75	65	95	37	2700	50	1.2	23	16	11
ACF2-RNM107K300A	100	90	90	40	4000	45	2.2	34	24	17
ACF2-RNM117K300A	110	90	90	40	4400	45	2.5	38	26	18
ACF2-RNM127K300A	120	90	95	37	4400	50	2.7	37	26	18
ACF2-RNM157K300A	150	90	110	29	4300	63	2.7	37	26	18
ACF2-RNM257K300A	250	90	190	21	7200	125	2.2	42	29	21
ACF2-RNM307K300A	300	90	195	29	8500	125	2.2	47	33	23

ACF1-RNM : 400Vac / 640Vdc

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
ACF1-RNM155K400A	1.5	65	57	352	527	8.5	2.20	29	25	15
ACF1-RNM205K400A	2	65	57	390	781	8.5	2.00	25	22	13
ACF1-RNM255K400A	2.5	65	57	247	618	8.5	1.80	25	22	13
ACF1-RNM335K400A	3.3	65	57	247	816	8.5	1.65	32	29	17
ACF1-RNM405K400A	4	65	57	247	989	8.5	1.56	46	41	24
ACF1-RNM505K400A	5	90	57	247	1237	8.5	1.45	49	43	26
ACF1-RNM605K400A	6	90	57	247	1484	8.5	1.40	59	52	31

ACF1-RNM : 440Vac / 700Vdc

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{peak} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 55C	Max. Amp 85C	Max. Amp 105C
ACF1-RNM306K440A	30	65	110	55	1650	75	1.7	46	34	27
ACF1-RNM107K440A	100	90	190	55	5500	132	1.3	72	55	43

ACF1-RNM : 500Vac / 800Vdc

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
ACF1-RNM405K500A	4	65	280	833	3333	35	2.30	24	20	16
ACF1-RNM505K500A	5	65	280	488	2440	35	2.40	25	21	17
ACF1-RNM605K500A	6	65	280	488	2928	35	2.30	30	25	20
ACF1-RNM705K500A	7	65	280	400	2808	35	2.30	33	27	22
ACF1-RNM805K500A	8	65	280	292	2335	35	1.40	32	27	21
ACF1-RNM905K500A	9	90	280	488	4392	35	1.40	75	63	50
ACF1-RNM106K500A	10	90	280	400	4012	35	1.40	80	66	53
ACF1-RNM126K500A	12	90	280	292	3502	20	1.30	80	67	53
ACF1-RNM156K500A	15	90	280	292	4378	35	1.30	100	84	67

ACF1-RNM : 550Vac / 750Vdc

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{peak} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 55C	Max. Amp 85C	Max. Amp 105C
ACF1-RNM206K550A	20	65	110	100	2000	80	1.9	43	33	26
ACF1-RNM686K550A	68	90	190	107	7276	132	1.4	62	47	37

ACF1-RNM: 550Vac / 880Vdc

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
ACF1-RNM105K550A	1	65	57	647	647	8.5	2.70	24	21	13
ACF1-RNM125K550A	1.2	65	57	647	776	8.5	2.40	29	25	15
ACF1-RNM155K550A	1.5	65	57	647	970	8.5	2.20	36	31	19
ACF1-RNM205K550A	2	65	57	647	1294	8.5	2.00	48	42	25
ACF1-RNM335K550A	3.3	90	57	429	1417	8.5	1.80	41	36	21
ACF1-RNM355K550A	3.5	90	57	429	1503	8.5	1.60	43	38	23
ACF1-RNM405K550A	4	90	57	429	1718	8.5	1.45	49	43	26

Other Capacitance, Voltage, dv/dt, Current and Terminals is available. Please contact us for a design suited to your particular needs.

ACF2-RNM: 560Vac / 890Vdc

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
ACF2-RNM155K560A	1.5	65	57	527	791	8.5	5.06	10	8	5
ACF2-RNM205K560A	2	65	57	586	1171	8.5	4.60	9	7	4
ACF2-RNM255K560A	2.5	65	57	371	927	8.5	4.14	9	7	4
ACF2-RNM335K560A	3.3	65	57	371	1224	8.5	3.80	11	9	6
ACF2-RNM405K560A	4	65	57	371	1484	8.5	3.59	16	13	8
ACF2-RNM505K560A	5	90	57	371	1855	8.5	3.34	17	14	9
ACF2-RNM605K560A	6	90	57	371	2226	8.5	3.22	21	17	10

ACF1-RNM : 560Vac / 890Vdc

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
ACF1-RNM305K560A	3	65	280	903	2711	35	2.40	20	17	13
ACF1-RNM405K560A	4	65	280	728	2914	35	2.40	24	20	16
ACF1-RNM505K560A	5	65	280	530	2646	35	2.30	25	21	17
ACF1-RNM605K560A	6	65	280	530	3175	35	2.30	31	26	21
ACF1-RNM705K560A	7	65	280	435	3045	35	2.20	33	27	22
ACF1-RNM805K560A	8	90	280	530	4233	20	1.60	67	56	45
ACF1-RNM905K560A	9	90	280	435	3915	20	1.52	75	63	50
ACF1-RNM106K560A	10	90	280	435	4350	20	1.45	80	66	53
ACF1-RNM126K560A	12	90	280	435	5220	20	1.45	91	76	61

ACF2-RNM : 600Vac / 960Vdc

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
ACF2-RNM405K600A	4	65	280	1500	6023	35	5.29	8	6	4
ACF2-RNM505K600A	5	65	280	882	4410	35	5.52	8	7	4
ACF2-RNM605K600A	6	65	280	882	5292	35	5.29	10	8	5
ACF2-RNM705K600A	7	65	280	725	5075	35	5.29	11	9	5
ACF2-RNM805K600A	8	65	280	527	4220	35	3.22	11	8	5
ACF2-RNM905K600A	9	90	280	882	7938	35	3.22	25	20	13
ACF2-RNM106K600A	10	90	280	725	7250	35	3.22	27	21	13
ACF2-RNM126K600A	12	90	280	527	6329	20	2.99	27	21	13
ACF2-RNM156K600A	15	90	280	527	7912	35	2.99	33	27	17

ACF1-RNM: 600Vac / 960Vdc

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
ACF1-RNM255K600A	2.5	235	65	280	1004	35	2.57	17	14	11
ACF1-RNM305K600A	3	235	65	280	1004	35	2.40	20	17	13
ACF1-RNM355K600A	3.5	235	65	280	1004	35	2.40	23	20	16
ACF1-RNM405K600A	4	235	65	280	809	35	2.30	24	20	16
ACF1-RNM505K600A	5	235	65	280	588	35	2.40	25	21	17
ACF1-RNM605K600A	6	235	65	280	588	35	2.30	31	26	21
ACF1-RNM705K600A	7	230	90	280	588	20	1.60	59	49	39
ACF1-RNM805K600A	8	230	90	280	588	20	1.50	70	58	47
ACF1-RNM905K600A	9	230	90	280	588	20	1.40	75	63	50
ACF1-RNM106K600A	10	230	90	280	588	20	1.30	85	71	57

ACF1-RNM : 640Vac / 900Vdc

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 55C	Max. Amp 85C	Max. Amp 105C
ACF1-RNM155K640A	15	65	110	140	2100	80	1.8	45	34	28
ACF1-RNM255K640A	25	90	110	150	3750	80	1.4	54	41	33
ACF1-RNM506K640A	50	90	190	90	4500	132	1.3	69	53	42

Other Capacitance, Voltage, dv/dt, Current and Terminals is available. Please contact us for a design suited to your particular needs.

ACF1-RNM : 680Vac / 1080Vdc

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
ACF1-RNM684K680A	0.68	65	57	890	605	7.5	2.70	19	17	10
ACF1-RNM105K680A	1	65	57	890	890	7.5	2.40	29	25	15
ACF1-RNM125K680A	1.2	65	57	890	1069	7.5	2.20	34	30	18
ACF1-RNM155K680A	1.5	90	57	890	1336	7.5	1.90	43	38	23
ACF1-RNM205K680A	2	90	57	890	1781	7.5	1.70	57	50	30
ACF1-RNM225K680A	2.2	90	57	890	1959	7.5	1.50	57	50	30

ACF1-RNM : 700Vac / 1000Vdc

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 55C	Max. Amp 85C	Max. Amp 105C
ACF1-RNM126K700A	12	65	110	145	1740	80	3.3	38	29	23
ACF1-RNM406K700A	40	90	190	100	4000	132	1.3	59	45	36

ACF2-RNM : 700Vac / 1120Vdc

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
ACF2-RNM105K700A	1	65	57	882	882	8.5	6.21	8	7	4
ACF2-RNM125K700A	1.2	65	57	882	1058	8.5	5.52	10	8	5
ACF2-RNM155K700A	1.5	65	57	882	1323	8.5	5.06	13	10	6
ACF2-RNM205K700A	2	65	57	882	1764	8.5	4.60	17	13	8
ACF2-RNM305K700A	3	65	280	1500	4518	35	5.52	7	5	3
ACF2-RNM335K700A	3.3	90	57	586	1933	8.5	4.14	14	11	7
ACF2-RNM355K700A	3.5	90	57	586	2050	8.5	3.68	15	12	8
ACF2-RNM405K700A-V1	4	90	57	586	2342	8.5	3.34	17	14	9
ACF2-RNM405K700A-V2	4	65	280	1214	4857	35	5.52	8	6	4
ACF2-RNM505K700A	5	65	280	882	4410	35	5.29	8	7	4
ACF2-RNM605K700A	6	65	280	882	5292	35	5.29	10	8	5
ACF2-RNM705K700A	7	65	280	725	5075	35	5.06	11	9	5
ACF2-RNM805K700A	8	90	280	882	7056	20	3.68	22	18	11
ACF2-RNM905K700A	9	90	280	725	6525	20	3.50	25	20	13
ACF2-RNM106K700A	10	90	280	725	7250	20	3.34	27	21	13
ACF2-RNM126K700A	12	90	280	725	8700	20	3.34	30	24	15

ACF1-RNM : 750Vac / 1200Vdc

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
ACF1-RNM255K750A	2.5	65	280	1000	2510	35	2.60	17	14	11
ACF1-RNM305K750A	3	65	280	1000	3012	35	2.40	20	17	13
ACF1-RNM355K750A	3.5	65	280	1000	3514	35	2.40	23	20	16
ACF1-RNM405K750A	4	65	280	810	3238	35	2.30	24	20	16
ACF1-RNM505K750A	5	90	280	1000	5020	20	1.50	56	47	37
ACF1-RNM605K750A	6	90	280	810	4857	20	1.40	60	50	40

ACF2-RNM : 780Vac / 1240Vdc

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I _{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C	Max. Amp 105C
ACF2-RNM255K780A	2.5	65	280	1500	3765	35	5.91	6	4	3
ACF2-RNM305K780A	3	65	280	1500	4518	35	5.52	7	5	3
ACF2-RNM355K780A	3.5	65	280	1500	5270	35	5.52	8	6	4
ACF2-RNM405K780A	4	65	280	1214	4857	35	5.29	8	6	4
ACF2-RNM505K780A	5	65	280	882	4410	35	5.52	8	7	4
ACF2-RNM605K780A	6	65	280	882	5292	20	5.29	10	8	5
ACF2-RNM705K780A	7	90	280	882	6174	20	3.68	20	16	10
ACF2-RNM805K780A	8	90	280	882	7056	20	3.45	23	19	14
ACF2-RNM905K780A	9	90	280	882	7938	20	3.22	25	20	13
ACF2-RNM106K780A	10	90	280	882	8820	20	2.99	28	23	14

Other Capacitance, Voltage, dv/dt, Current and Terminals is available. Please contact us for a design suited to your particular needs.

ACF1-RNM : 900Vac / 1350Vdc

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I_{p-p} A	ESL nH	ESR (mohm) 100KHz	Max. Amp 55C	Max. Amp 85C	Max. Amp 105C
ACF1-RNM805K900A	8	65	110	175	1400	80	3.6	38	29	23
ACF1-RNM126K900A	12	90	110	175	2100	80	1.6	56	43	34

Other Capacitance, Voltage, dv/dt, Current and Terminals is available. Please contact us for a design suited to your particular needs.

Headquarter & Production : HK Film Capacitor Ltd <https://www.filmcapacitor-st.com> e-mail : info@filmcapacitor-st.com
Worldwide Sales Office : HKFC Industrial Pty Ltd <https://www.hkfc-industrial.com> e-mail : enquiry@hkfc-industrial.com

4.2 DC Pulse Current Capacitors / DC Filter Capacitors

DCF-03 and DCF-04 series

- medium Frequency range and higher RMS Current
- for 20 - 100kHz frequency

Applications :

DC/AC applications, Switching Power Supply input filtering, DC blocking and output filter, welding equipment, DC Filtering application, MMC Capacitors module / Multi-Miniature Capacitors module

Constructions :

Supporting different Capacitor Configuration, electrical connections and mounting options so as to increase your design flexibility

Properties :

Medium Frequency range and RMS Current Capacity; very Low Losses and Low Inductance, High Insulation Resistance; both AC and DC voltage; Flame Retardant Construction; Easy Installation

Electrical Characteristics :

DCF-03QI / DCF-03QL / DCF-03QT – higher RMS current

Rated Voltage : 100 - 400Vdc / 70 - 250Vac

RMS Current up to 30A

DCF-04QI / DCF-04QL / DCF-04QT – smaller size & higher voltage range

Rated Voltage : 250 - 700Vdc / 160 - 400Vac

RMS Current up to 13A

Capacitance range : 0.68uF - 30uF

Capacitance Tolerance : +/-5%; +/-10%

Equivalent Series Resistance (ESR) : measured at 25C 100kHz

Dissipation factor (DF) : <0.1% 1KHz) at 23C

Testing Voltage : $2 \times U_n$ 60sec 25C (can be customized design)

Insulation Resistance : Terminal – Terminal : 300,000M ohm 500Vdc 60sec

Terminal – Case : 5000M ohm 500Vdc 60sec

Operate Temperature : +70C / +85C / +105C

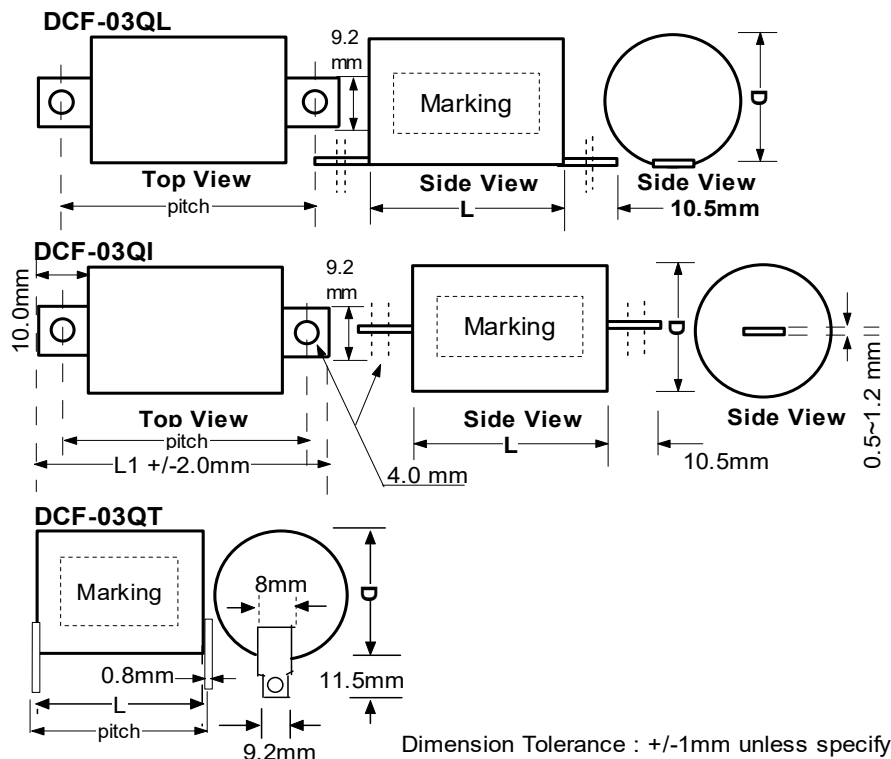
Full rated voltage at 85C, derate linearly to 50% rated voltage at 105C.

Pulse Voltage rise & fall time dv/dt : detail information available on request

Options :

Thermocouple can be built-in :

- capacitor internal temperature can be measured
- output temperature signal can be used as one of reference signals in the circuit and trigger other function



For other Capacitance, Voltage, dv/dt, Peak Current and RMS Current not listed, please contact us for a suggestion.

Headquarter & Production : HK Film Capacitor Ltd <https://www.filmcapacitor-st.com> e-mail : info@filmcapacitor-st.com
Worldwide Sales Office : HKFC Industrial Pty Ltd <https://www.hkfc-industrial.com> e-mail : enquiry@hkfc-industrial.com

DC Pulse Current Capacitors / DC Filter Capacitors DCF-03QI series

Specifications and Size : 100Vdc / 75Vac

Cn uF	Diameter D mm	Capacitor Length L mm	Total Length L1 mm	Max. Amp							Peak Pulse Current A	Max. dv/dt V/us	Max. ESR @ 100KHz mohm 90C
				+25C	+45C	+55C	+65C	+75C	+85C	+90C			
1.0 uF	15	31	50	11	9.9	8.9	8.0	6.5	5.2	4.4	22	22	15
2.0 uF	18	33	52	12.5	11.3	10.1	9	7.2	6.4	5.5	38	19	12
2.2 uF	20	33	52	13	11.7	10.5	9.3	7.4	6.6	5.6	41	19	12
3.0 uF	21	38	57	13.5	12.2	10.9	9.8	8.8	7.7	6.5	45	15	11
3.3 uF	22.5	38	57	14	12.4	11.2	10.2	9.0	7.9	6.7	49.5	15	11
5.0 uF	25.5	38	57	15.5	13.1	11.8	10.6	9.6	8.6	7.5	75	15	10
10.0 uF	26.5	42	61	18	15.3	13.7	12.3	11.2	10.0	8.5	100	10	9
20.0 uF	33	52	71	23	19.5	17.5	15.8	14.2	12.8	11	140	7	8
30.0 uF	39	52	71	25	21.2	19.1	17.2	15.4	13.9	12.2	210	7	6

Specifications and Size : 200Vdc / 140Vac

Cn uF	Diameter D mm	Capacitor Length L mm	Total Length L1 mm	Max. Amp							Peak Pulse Current A	Max. dv/dt V/us	Max. ESR @ 100KHz mohm 90C
				+25C	+45C	+55C	+65C	+75C	+85C	+90C			
1.0 uF	18	33	52	8	8	8	8	8	6.8	5.4	15	15	20
2.0 uF	21.5	38	57	14.5	12.3	11	9.9	9	8.1	7.2	22	11	15
2.2 uF	22.5	38	57	15	12.7	11.5	10.3	9.2	8.3	7.3	24.2	11	15
3.0 uF	26	38	57	16	13.6	12.2	11	9.9	8.9	7.5	33	11	13
3.3 uF	27	38	57	16.5	14.8	13.3	12	10.8	9.6	7.7	36.3	11	13
5.0 uF	33	38	57	19	16.2	14.5	13	11	10	8.5	55	11	11
10.0 uF	37.5	50	69	22.5	19	17	15.5	13.9	12.5	10.6	100	10	9
20.0 uF	44.5	65	86	28	23.8	21	18.9	16	14.5	13	140	7	6

Specifications and Size : 400Vdc / 270Vac

Cn uF	Diameter D mm	Capacitor Length L mm	Total Length L1 mm	Max. Amp							Peak Pulse Current A	Max. dv/dt V/us	Max. ESR @ 100KHz mohm 90C
				+25C	+45C	+55C	+65C	+75C	+85C	+90C			
1.0 uF	19.5	38	57	9.5	9.5	9.5	9.5	8.3	7.5	6.7	20	20	18
2.0 uF	22	50	69	15	15	15	14.2	12.4	10.5	8.5	32	16	15
2.2 uF	22.5	50	69	15.5	15.5	15.5	14.7	12.9	11	9.0	35	16	15
3.0 uF	26	50	69	21	17.8	16	15.2	13.7	11.6	9.6	48	16	11
3.3 uF	27	50	69	21.5	18	16.4	15	13.8	12.4	9.8	52	16	11
5.0 uF	28	65	86	24.4	20.7	18.6	16.7	15	13.5	11.5	55	11	8
10.0 uF	40	65	86	30	25.5	22.9	20.5	18.5	16.6	14.5	110	11	6

For other Capacitance, Voltage, dv/dt, Peak Current and RMS Current not listed, please contact us for a suggestion.

DC Pulse Current Capacitors / DC Filter Capacitors DCF-04QI series

Specifications and Size : 250Vdc / 160Vac

Cn uF	Diameter D mm	Capacitor Length L mm	Total Length L1 mm	Max. ESR @ 100KHz mohm	Max. dv/dt V/us	Peak Current A	Max. Amp 70C
1	11.5	22	43	2.4	99	99	5
1.5	10.5	34	55	4.9	55	82.5	7
2.2	11.5	34	55	3.3	55	121	9
2.5	12.5	34	55	3	55	138	9
3	14	34	55	2.6	55	165	9
5	17.5	34	55	1.9	55	275	9
6.8	20.5	34	55	1.6	55	374	9
10	20.5	45	66	1.9	33	330	9
15	25	45	66	1.4	33	495	13
20	28.5	45	66	1.3	33	660	13
25	32	45	66	1.3	33	825	13
30	30	58	79	2.3	22	660	13

Specifications and Size : 400Vdc / 250Vac

Cn uF	Diameter D mm	Capacitor Length L mm	Total Length L1 mm	Max. ESR @ 100KHz mohm	Max. dv/dt V/us	Peak Current A	Max. Amp 70C
0.68	10.5	34	55	6.7	77	53	6
1	12.5	34	55	4.6	77	77	8
1.5	15	34	55	3.2	77	116	9
2	17	34	55	2.6	77	154	10
2.2	18	34	55	2.5	77	169	10
2.5	19	34	55	2.3	77	193	10
3	20.5	34	55	2.1	77	231	10
4	20	45	66	2.7	55	220	10
4.7	21.5	45	66	2.4	55	259	11
5	22	45	66	2.3	55	275	11
6.8	25.5	45	66	1.9	55	374	13
10	30.5	45	66	1.6	55	550	13
15	32.5	58	77	2.8	33	495	13

Specifications and Size : 600Vdc / 330Vac

Cn uF	Diameter D mm	Capacitor Length L mm	Total Length L1 mm	Max. ESR @ 100KHz mohm	Max. dv/dt V/us	Peak Current A	Max. Amp 70C
1	16	34	55	3.8	110	110	10
2	19	45	66	3.7	83	166	10
2.2	20	45	66	3.5	83	183	10
3	23	45	66	2.8	83	249	10
4.7	28	45	66	2.1	83	390	13
5	29	45	66	2	83	415	13
6.8	29	58	79	4.1	55	374	13
8	42	30	51	3.3	80	640	15
10	35	58	79	3.2	55	550	13

Specifications and Size : 700Vdc / 400Vac

Cn uF	Diameter D mm	Capacitor Length L mm	Total Length L1 mm	Max. ESR @ 100KHz mohm	Max. dv/dt V/us	Peak Current A	Max. Amp 70C
0.68	17.5	34	55	4.1	138	94	10
1	21	34	55	3.1	138	138	11
1.5	21	45	66	3.8	99	149	11
2	24	45	66	3	99	198	13
2.2	25	45	66	2.8	99	218	13
3	29	45	66	2.3	99	297	13
4	33.5	45	66	2	99	396	13
4.7	30	58	79	4.7	66	310	13
5	31	58	79	4.4	66	330	13

For other Capacitance, Voltage, dv/dt, Peak Current and RMS Current not listed, please contact us for a suggestion.

4.3 Energy Discharge Capacitors

Pulse Grade Capacitors : STP-02R and STP-02RM series

STP-02RM is a smaller version of STP-02R

Applications :

- Electric Fence Energizer, Welding Energizer Equipment, High intensity discharge lighting, High Energy and Current Discharge applications
- Capacitor can be direct short circuit at rated voltage without any protective component

Constructions :

Supporting different Capacitor Configuration, electrical connections and mounting options so as to increase your design flexibility

Electrical Connections :

Tin plated copper lead wire

Flexible electrical lead wire

Support Varies type Terminals : 250 type 6.35mm, 187 type 4.75mm, T280 type 4mm and other large size Terminals – which can deliver larger discharge current Ipp when compare with lead wires

Properties :

Low D.F. & Dielectric loss, High Discharge Current & Voltage Capabilities; High Insulation Resistance; AC and DC voltage; Flame Retardant Construction; Easy Installation

Mountings : Plastic Cylindrical Case : with stud – M8 / without stud

Electrical Characteristics :

Rated Voltage : 400 – 1,600Vdc / 220 - 570Vac (can customized design)

Capacitance range : 0.1uF - 200uF

Capacitance Tolerance : +/-5%; +/-10%

Equivalent Series Resistance (ESR) : measured at 25C 100kHz

Dissipation factor (DF) : <0.1% 1KHz) at 23C

Testing Voltage : (can be customized design)

STP-02R : $1.2 \times U_n$ 10sec 25C

STP-02RM : $1.2 \times U_n$ 10sec 25C

Insulation Resistance : Terminal – Terminal : 15000M ohm 1kVdc 60sec

Terminal – Case : 5000M ohm 1kVdc 60sec

Operate Temperature : +70C / +85C / +105C

Options :

Thermocouple can be built-in :

- capacitor internal temperature can be measured

- output temperature signal can be used as one of reference signals in the circuit and trigger other function



For other Capacitance, Voltage (peak-to-peak), dv/dt and peak-to-Peak Current, please contact us for a suggestion.

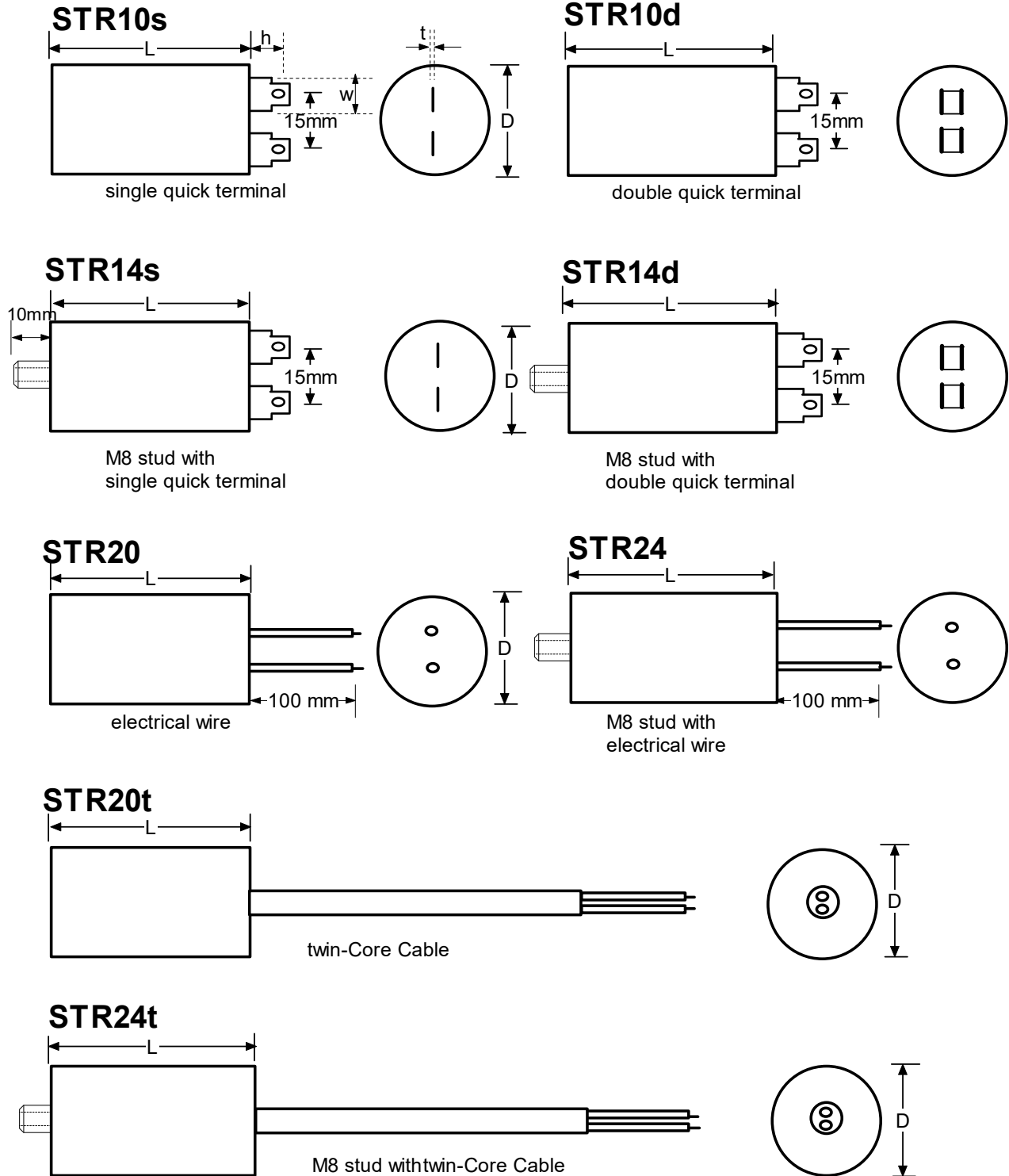
Cylindrical Capacitor Configurations - Electrical Connection and Mounting :

Quick Terminal : 187 : w4.75 x h10 x t0.5mm

250D / 250S : w6.35 x h10 x t0.8mm

Solder Terminal : T280 : w2 + 2.8 x h12 x t0.5mm - pulse grade capacitor only

Electrical Wire length : 100mm, other length is available;
6.35mm female terminals (optional)



: Optional Faston Terminal 6.35mm for STR-20, STR-24, there are some other Terminals for your choice

The above packaging configuration can be applied for all cylindrical type capacitors.

Box Type Capacitor Configurations - Electrical Connection and Mounting :

Box type : STA and STB series

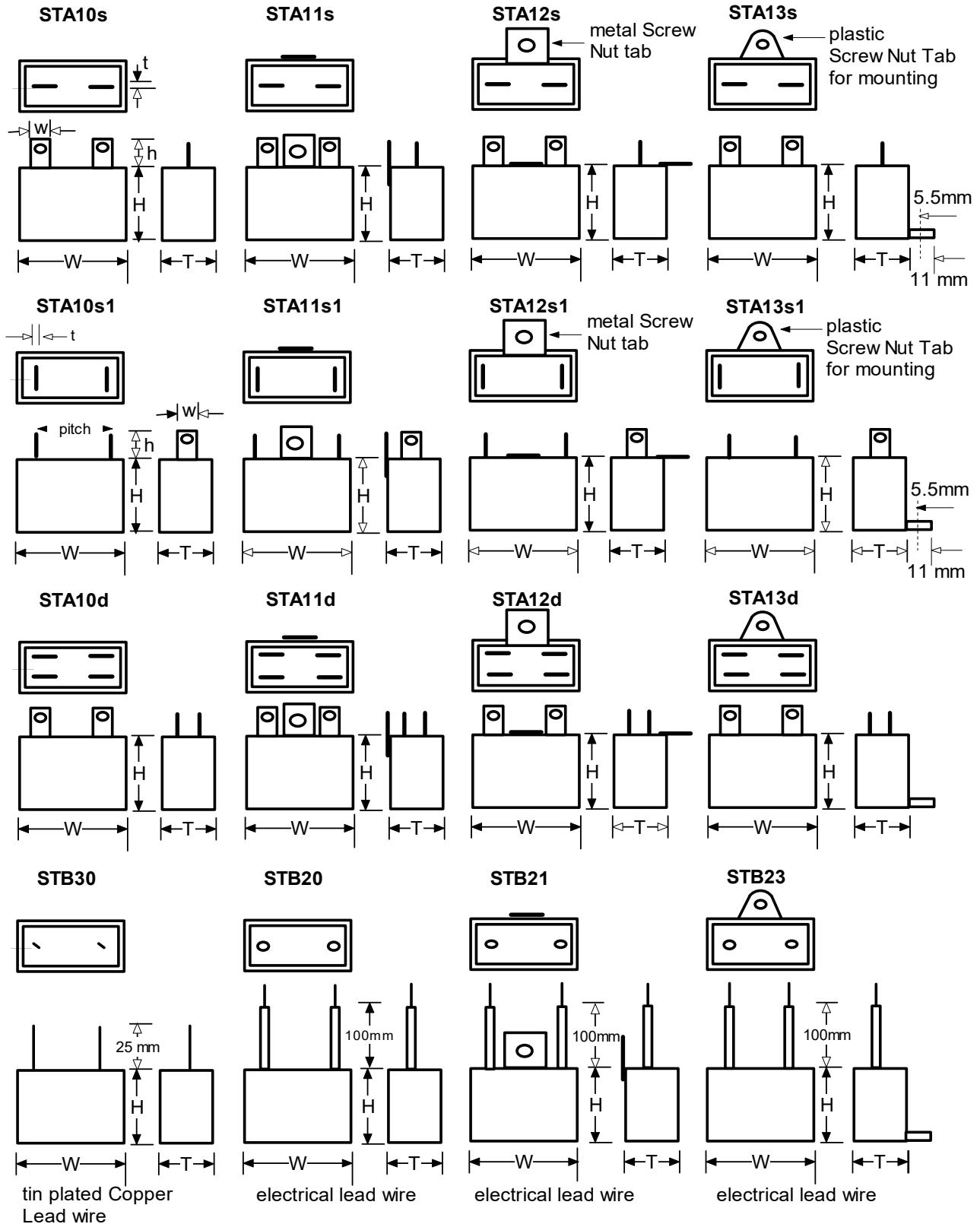
Quick Terminal : 187 type : w4.75 x h10 x t0.5mm

250 type : w6.35 x h10 x t0.8mm

Solder Terminal : T280 type : w4 x h8 x t0.5mm

Tin Plated Copper Lead

standard electrical lead wire length : 100mm, other length is available

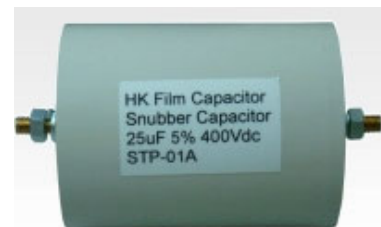


The above packaging configuration can be applied for all plastic box type capacitor.

Capacitor Package Configurations and Coding :

Cylindrical plastic Enclosure : power connection at Both ends connection :

- A : with Tin Plated Copper Lead Wire at both ends (Axial Leads)
- AE : with Electrical Lead wire at both ends
- AN / RAN (HiVolt Snubber) : with a Screw Nut M8 etc at both ends
- ANL : with Screw Nut M8 etc at both ends + Mounting Foot-L at both ends for easier capacitor mounting
- AB / RFB (HiVolt Snubber) : with a Screw Bolt/Thread M8 etc at both ends
- ABL : with Screw Bolt/Thread M8 etc at both ends + Mounting Foot-L at both ends for easier capacitor mounting
- ABN / RFN (HiVolt Snubber) : with Screw Bolt and Screw Nut, one at an end
- RFT (HiVolt Snubber) : with Screw Bolt for Mounting and Grounding at the Capacitor base; and a 6.3mm Tab-Terminal at the other end
- AR : with Heavy Duty Busbar at both ends
- AT : with T-Terminal Foot at both ends for Power Connection and Capacitor Installation.
- AL : with L-Terminal Foot at both ends for Power Connection and Capacitor Installation.
- AI : with I-Terminal / Foot at both ends for Power Connection and Capacitor Installation.



Cylindrical plastic Enclosure : power connection at One end :

- R : with Tab Terminals or Power Lead Wires.
- RM : with Tab Terminals or Power Lead Wires + one Screw Bolt at the other end for mounting.
- RC : with short Tin plated Copper leads for PCB soldering
- RN : Screw Nuts at one end
- RNM : Two Screw Nuts at one end for Power connection + one Screw Bolt at the other end for mounting
- RB : Screw Bolts/Threads at one end
- RBM : Two Screw Bolts/Threads at one end for Power connection + one Screw Bolt at the other end for mounting
- RFT : with one Tab-Terminal for Power connection and Screw Bolt at the base for Installation and Power Connection
- RFN : with one Screw Nut for Power connection and Screw Bolt at the base for Installation and Power Connection
- RFB : with one Screw Bolt/Thread for Power connection and Screw Bolt at the base for Installation and Power Connection



Capacitor wrapped with Flame Retardant tape and with Power connection at Both ends :

- QN : with Screw Nut at both ends
- QB : with Screw Bolt at both ends
- Q : with Tin plated Copper lead at both ends (Axial lead)
- QO : with Oval sharp capacitor with Tin plated Copper lead at both ends (Axial lead)
- QE : with Electrical Lead wire at both ends (Axial lead)
- QT : with T-Terminal at both ends
- QL : with L-Terminal at both ends
- QI : with I-Terminal at both ends

Box type Capacitor :

- B : with Terminals - different kind of Terminal, small, 187, 250 T280 and B-4T / B-6T / B-8T etc...
- BN : with Screw Nuts
- BB : with Screw Bolt/Threads
- BR : with Busbars
- BL : with Tin plated Copper L-Terminals (like IGBT installation application)
- BC : with Tin plated Copper short pins (BC2 - 2pins / BC4 - 4pins / BC6 - 6pins)
- BT : with small Copper Terminals (B-4T / B-6T / B-8T)
- BE : with electrical lead wires

D : epoxy dipped Capacitor

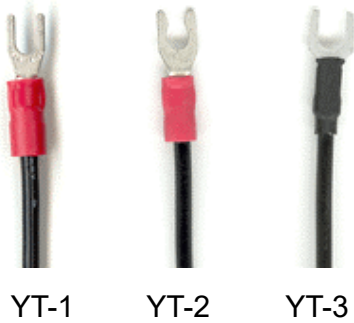
* The above Capacitor Configuration and Packaging Code can be applied on most of all our capacitor series.

Electrical Connection Options :

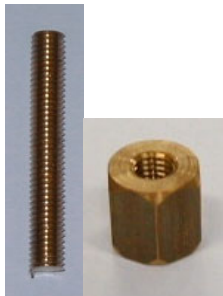
Terminal and Receptacle – can be applied to most of the capacitors

TR-1 - TR-3 for Terminal : 250 : W6.35 x H10 x 0.8mm (250 Faston)

TR-4 for Terminal : 187 : W4.75 x H10 x 0.5mm



Size : M5 M6 M8 M10 M12



There are some other connectors can be used with our capacitors so as to increase your design flexibly.