

## 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 / 1600Vac – 5000Vac

**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.

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**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
- M6, M8 and M10 screw threads/nut as capacitor electrical terminal

### 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

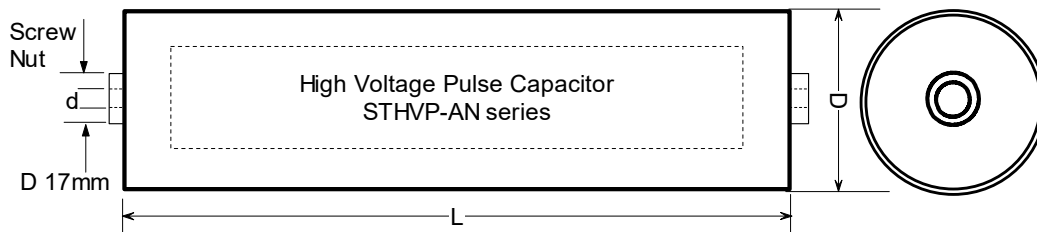
**Temperature range** : +70C / +85C / +105C ( depends on capacitor raw materials )

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 <sub>p-p</sub> 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.

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**STHVP-AN : 2000Vdc / 1000Vac**

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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

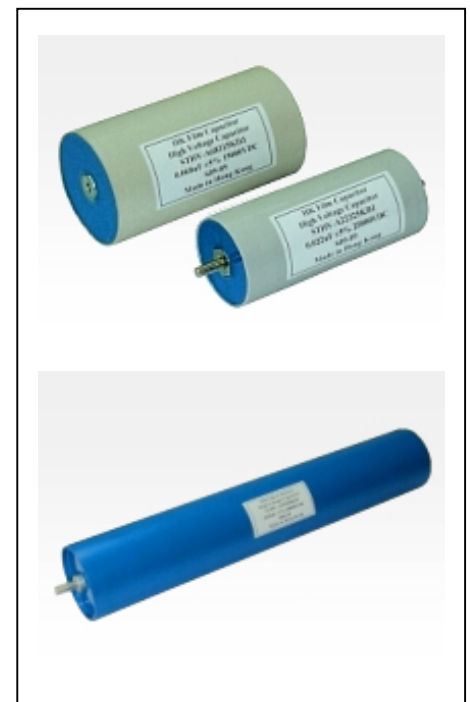
**Accelerated Life** : 1.25 x Vdc or Vac at rated Temperature for 2,000 hours

**Maximum Ripple Current** : up to 60A

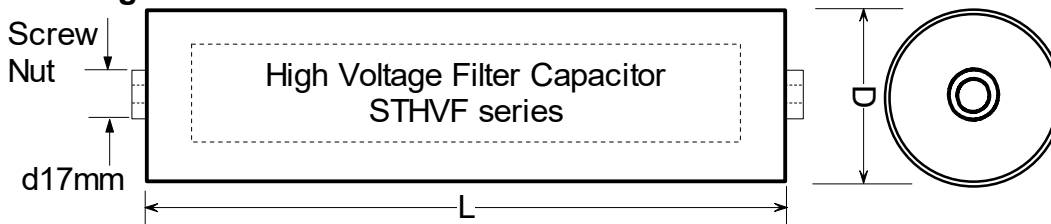
**Peak discharge current - I peak** : up to 8400A

**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 <sub>p-p</sub> 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.

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

**STHVF-AN : 1800Vdc / 750Vac**

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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**

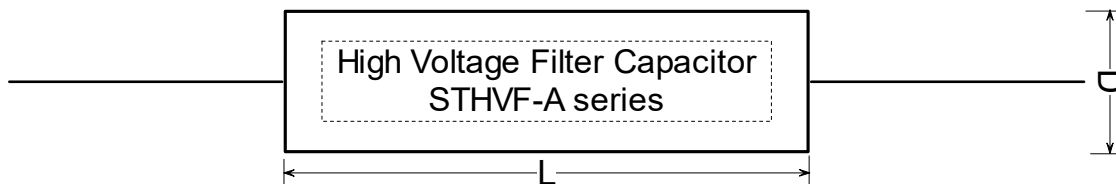
P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	Peak Current I <sub>p-p</sub> A	ESL nH	ESR (mohm) 100KHz	Max. Amp 70C	Max. Amp 85C
STHVF-AN104K23KD	0.1	65	296	8400	840	50	15.4	8	6
STHVF-AN124K23KD	0.12	65	296	8400	1008	50	14.7	9	8
STHVF-AN154K23KD	0.15	90	296	8400	1260	50	14.3	12	9
STHVF-AN204K23KD	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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 <sub>p-p</sub> 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 / Vtt = 6000Vdc 5s**

P/N :	Cn uF	Diameter D mm	Length L mm	dv/dt v/us	I <sub>peak</sub> 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 <sub>p-p</sub> 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 / V<sub>tt</sub> = 7500Vdc 5s**

P/N :	C <sub>n</sub> uF	Diameter D mm	Length L mm	dv/dt v/us	I <sub>peak</sub> 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 / V<sub>tt</sub> = 9000Vdc 5s**

P/N :	C <sub>n</sub> uF	Diameter D mm	Length L mm	dv/dt v/us	I <sub>peak</sub> 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 / V<sub>tt</sub> = 12KVdc 5s**

P/N :	C <sub>n</sub> uF	Diameter D mm	Length L mm	dv/dt v/us	I <sub>peak</sub> 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.