

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 / Vtt = 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

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