

HK Film Capacitor Ltd

6. High Voltage AC Power Capacitors : STHVDA-AN series

Applications :

- High Voltage and High RMS Current applications
- Can be used for repetition frequency 1Hz to 50Hz
- High Voltage Medium Frequency Power applications
- High Voltage Resonant Circuits

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 : 1600Vrms – 4000Vrms

Capacitance : 0.025uF – 0.5uF

Maximum RMS Current : up to 50A (Continuous Duty)

Reactive Power up to 105kVAR

Testing Voltage : 1.4 x Uac 10 sec (can be customized design)

Low ESR and series Inductance

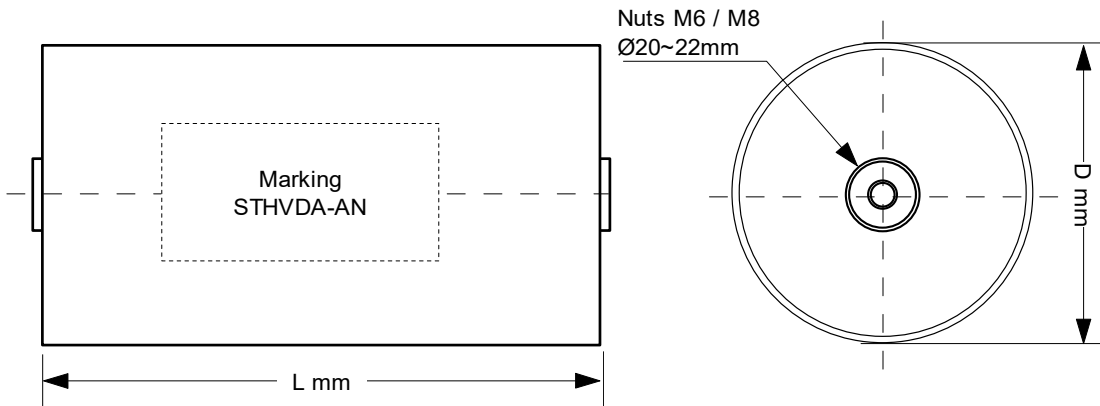
Temperature range : +70C / +85C (depends on capacitor raw materials)

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

Our capacitors can be customized according to the customer's requirement



Specifications and Size :
STHVDA-AN 1600Vrms

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. I _{rms} 70C	Max. I _{rms} 85C
STHVDA-AN124K1600VR	0.12	45	116	4257	511	25	4.2	20	15
STHVDA-AN154K1600VR	0.15	45	116	4257	639	25	3.3	25	20
STHVDA-AN224K1600VR	0.22	65	118	4257	937	25	2.6	30	25
STHVDA-AN254K1600VR	0.25	65	118	4257	1064	25	2.4	35	30
STHVDA-AN334K1600VR	0.33	65	118	4257	1405	25	1.7	40	35
STHVDA-AN474K1600VR	0.47	90	118	4257	2001	25	1.5	50	40
STHVDA-AN504K1600VR	0.5	90	118	4257	2129	25	1.2	50	40

STHVDA-AN 2000Vrms

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. I _{rms} 70C	Max. I _{rms} 85C
STHVDA-AN124K2000VR	0.12	45	116	6731	808	25	3.7	20	15
STHVDA-AN154K2000VR	0.15	65	118	6731	1010	25	3.1	25	20
STHVDA-AN224K2000VR	0.22	65	118	6731	1481	25	2.2	30	25
STHVDA-AN254K2000VR	0.25	65	118	6731	1683	25	1.9	35	25
STHVDA-AN334K2000VR	0.33	90	118	6731	2221	25	1.6	40	35
STHVDA-AN474K2000VR	0.47	90	118	6731	3164	25	1.3	50	40
STHVDA-AN504K2000VR	0.5	90	118	6731	3366	25	1.2	50	40

STHVDA-AN 2400Vrms

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. I _{rms} 70C	Max. I _{rms} 85C
STHVDA-AN823K2400VR	0.082	45	116	8993	737	25	5.1	18	15
STHVDA-AN104K2400VR	0.1	45	116	8993	899	25	4.2	20	15
STHVDA-AN124K2400VR	0.12	65	116	8993	1079	25	3.5	20	15
STHVDA-AN154K2400VR	0.15	65	116	8993	1349	25	2.8	25	20
STHVDA-AN224K2400VR	0.22	90	116	8993	1978	25	2.2	30	25
STHVDA-AN254K2400VR	0.25	90	116	8993	2248	25	1.8	30	25
STHVDA-AN334K2400VR	0.33	90	116	8993	2968	25	1.35	40	35

STHVDA-AN 2600Vrms

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. I _{rms} 70C	Max. I _{rms} 85C
STHVDA-AN503K2600VR	0.05	45	116	11574	579	25	7.2	12	10
STHVDA-AN683K2600VR	0.068	45	116	11574	787	25	6.6	12	10
STHVDA-AN104K2600VR	0.1	65	118	11574	1157	25	5.1	20	15
STHVDA-AN124K2600VR	0.12	65	118	11574	1389	25	4.7	20	15
STHVDA-AN154K2600VR	0.15	65	118	11574	1736	25	4.4	25	20
STHVDA-AN224K2600VR	0.22	90	118	11574	2546	25	4	30	25
STHVDA-AN254K2600VR	0.25	90	118	11574	2894	25	3.4	30	25

STHVDA-AN 3000Vrms

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. I _{rms} 70C	Max. I _{rms} 85C
STHVDA-AN503K3000VR	0.05	45	116	14190	710	25	7	15	12
STHVDA-AN683K3000VR	0.068	65	118	14190	965	25	6.5	15	12
STHVDA-AN104K3000VR	0.1	65	118	14190	1419	25	5.8	20	15
STHVDA-AN124K3000VR	0.12	65	118	14190	1703	25	5.5	20	15
STHVDA-AN154K3000VR	0.15	90	118	14190	2129	25	5.0	25	20
STHVDA-AN224K3000VR	0.22	90	118	14190	3122	25	4.6	30	25

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

STHVDA-AN 3500Vrms

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. I _{rms} 70C	Max. I _{rms} 85C
STHVDA-AN503K3500VR	0.05	65	250	19290	965	50	8.1	20	15
STHVDA-AN753K3500VR	0.075	90	250	19290	1447	50	6	25	20
STHVDA-AN104K3500VR	0.1	90	250	19290	1929	50	5.1	25	20
STHVDA-AN124K3500VR	0.12	90	250	19290	2315	50	4.5	30	25

STHVDA-AN 4000Vrms

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. I _{rms} 70C	Max. I _{rms} 85C
STHVDA-AN253K4000VR	0.025	65	250	26300	658	50	12	12	10
STHVDA-AN25333K4000VR	0.033	65	250	26300	868	50	9	12	10
STHVDA-AN503K4000VR	0.05	90	250	26300	1315	50	6.8	15	12
STHVDA-AN683K4000VR	0.068	90	250	26300	1788	50	5.1	20	15
STHVDA-AN753K4000VR	0.075	90	250	26300	1973	50	4.6	30	25

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