

7 High Pulse Capacitors : STD-02HVA series

Applications :

- High Current and High Pulse Energy Discharge
- High Voltage Resonance
- High Voltage Switch Absorption and Protection
- All kinds of High Voltage Welding Machine
- Can be used for repetition frequency 10Hz to 50Hz
- AC / DC voltage application
- Capacitor can be discharged at rated voltage directly without any protective component with temperature up to 85C
- Pulse Discharge Circuit

Features :

- low inductance
- excellent Frequency Response
- RMS Current Rating
- high peak Pulse Current Ratings (dv/dt)
- higher Temperature range
- M6 and M8 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 : 1,100Vdc – 4,200Vdc / 600Vac – 2,200Vac

Capacitance : 1uF – 10uF

Maximum Ripple Current : up to 70A at 70C

Peak discharge current - I peak : up to 4300A

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

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

Insulation Resistance :250Vdc +23C >= 15,000Mohm

Low ESR and series Inductance

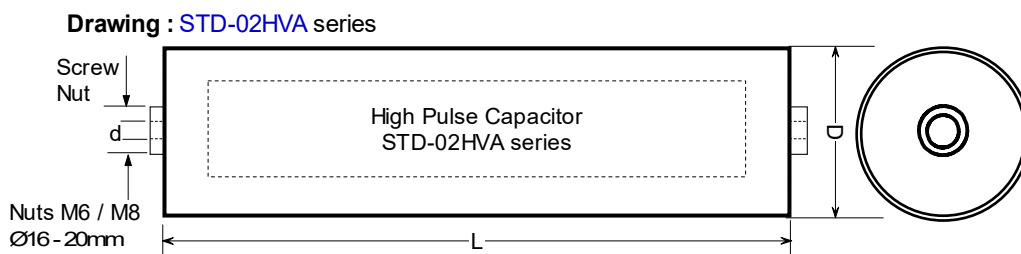
Temperature range : +70C / +85C (depends on capacitor raw materials)

Ultra-Low Leakage version is available on request

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



Drawing :



Specifications and Size :
STD-02HVA: 1100Vdc / 600Vac

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
STD-02HVA305J1100D	3	65	150	400	1200	30	1.9	35
STD-02HVA335J1100D	3.3	65	150	400	1320	30	1.7	35
STD-02HVA405J1100D	4	65	150	400	1600	30	1.5	40
STD-02HVA505J1100D	5	65	150	400	2000	30	1.4	45
STD-02HVA605J1100D	6	65	150	400	2400	30	1.35	50
STD-02HVA705J1100D	7	90	150	400	2800	30	1.25	55
STD-02HVA805J1100D	8	90	150	400	3200	30	1.2	60
STD-02HVA106J1100D	10	90	150	400	4000	30	1.1	70

STD-02HVA: 1400Vdc / 700Vac

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
STD-02HVA335J1400D	3.3	65	150	540	1782	30	1.7	35
STD-02HVA405J1400D	4	65	150	540	2160	30	1.6	40
STD-02HVA505J1400D	5	65	150	540	2700	30	1.53	45
STD-02HVA605J1400D	6	90	150	540	3240	30	1.45	50
STD-02HVA705J1400D	7	90	150	540	3780	30	1.38	60
STD-02HVA805J1400D	8	90	150	540	4320	30	1.3	70

STD-02HVA: 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. I _{rms} 70C
STD-02HVA225J2000D	2.2	65	220	570	1254	45	2.3	35
STD-02HVA255J2000D	2.5	65	220	570	1425	45	2.1	35
STD-02HVA305J2000D	3	65	220	570	1710	45	2	40
STD-02HVA405J2000D	4	90	220	570	2280	45	1.8	50
STD-02HVA505J2000D	5	90	220	570	2850	45	1.6	60

STD-02HVA: 2300Vdc / 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. I _{rms} 70C
STD-02HVA205J2300D	2	65	295	598	1196	55	2.9	35
STD-02HVA225J2300D	2.2	65	295	598	1316	55	2.7	40
STD-02HVA255J2300D	2.5	65	295	598	1495	55	2.4	45
STD-02HVA305J2300D	3	65	295	598	1794	55	1.95	50
STD-02HVA335J2300D	3.3	90	295	598	1973	55	1.78	50
STD-02HVA405J2300D	4	90	295	598	2392	55	1.47	55
STD-02HVA505J2300D	5	90	295	598	2990	55	1.2	60

STD-02HVA: 2800Vdc / 1400Vac

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
STD-02HVA205J2800D	2	65	295	819	1638	55	2.6	40
STD-02HVA225J2800D	2.2	65	295	819	1802	55	2.4	40
STD-02HVA255J2800D	2.5	90	295	819	2048	55	2.1	45
STD-02HVA305J2800D	3	90	295	819	2457	55	1.7	50
STD-02HVA335J2800D	3.3	90	295	819	2703	55	1.6	55
STD-02HVA405J2800D	4	90	295	819	3276	55	1.3	60

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

STD-02HVA: 3300Vdc / 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. I _{rms} 70C
STD-02HVA155J3300D	1.5	65	295	1032	1548	55	2.6	40
STD-02HVA205J3300D	2	90	295	1032	2064	55	2.7	45
STD-02HVA225J3300D	2.2	90	295	1032	2270	55	2.4	45
STD-02HVA255J3300D	2.5	90	295	1032	2580	55	2.1	45
STD-02HVA305J3300D	3	90	295	1032	3096	55	1.8	55
STD-02HVA335J3300D	3.3	90	295	1032	3406	55	1.7	55

STD-02HVA: 3600Vdc / 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. I _{rms} 70C
STD-02HVA125J3600D	1.2	65	295	1120	1344	55	4	40
STD-02HVA155J3600D	1.5	65	295	1120	1680	55	3.4	45
STD-02HVA205J3600D	2	90	295	1120	2240	55	2.5	50
STD-02HVA225J3600D	2.2	90	295	1120	2464	55	2.2	50
STD-02HVA255J3600D	2.5	90	295	1120	2800	55	2	50

STD-02HVA: 4200Vdc / 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. I _{rms} 70C
STD-02HVA105J4200D	1	90	295	1662	1662	55	4.2	35
STD-02HVA125J4200D	1.2	90	295	1662	1994	55	3.5	40
STD-02HVA155J4200D	1.5	90	295	1662	2493	55	2	40

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