

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 40Hz
- 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 : 1,600Vdc – 5,000Vdc / 630Vac – 2,000Vac

Capacitance : 1uF – 8uF

Maximum Ripple Current : up to 60A 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

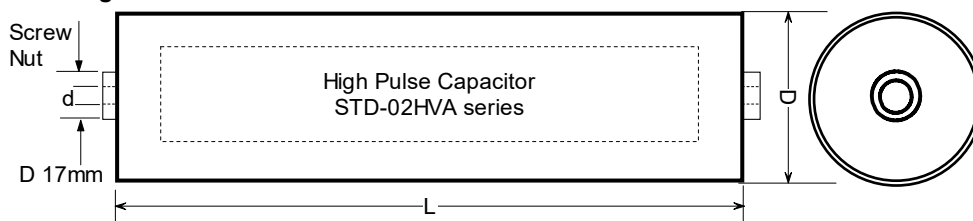
Temperature range : +70C / +85C (depends on capacitor raw materials)

Ultra-Low Leakage version is available on request



Drawing :

Drawing : STD-02HVA series



STD-02HVA: 1600Vdc / 630Vac

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. Irms 70C	Max. Irms 85C
STD-02HVA225J1600D	2.2	65	120	810	1780	20	2.9	35	30
STD-02HVA255J1600D	2.5	65	120	810	2020	20	2.8	40	35
STD-02HVA305J1600D	3	90	120	810	2430	20	2.6	45	40
STD-02HVA405J1600D	4	90	120	810	3240	20	2.5	50	45
STD-02HVA505J1600D	5	90	120	810	4050	20	2.4	55	50
STD-02HVA605J1600D	6	90	150	544	3260	25	2.2	55	50
STD-02HVA805J1600D	8	90	150	544	4350	25	2.1	60	55

STD-02HVA: 2400Vdc / 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. Irms 70C	Max. Irms 85C
STD-02HVA155J2400D	1.5	65	170	1300	1950	25	2.9	35	30
STD-02HVA205J2400D	2	90	170	1300	2600	25	2.7	40	35
STD-02HVA225J2400D	2.2	90	170	1300	2860	25	2.6	40	35
STD-02HVA255J2400D	2.5	90	170	1300	3250	25	2.5	45	40
STD-02HVA305J2400D	3	90	170	1300	3900	25	2.3	50	45
STD-02HVA405J2400D	4	90	210	816	3260	35	2.2	50	45
STD-02HVA505J2400D	5	90	210	816	4080	35	2.1	60	55

STD-02HVA: 3400Vdc / 1350Vac

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. Irms 70C	Max. Irms 85C
STD-02HVA155J3400D	1.5	65	270	1083	1620	40	3	32	25
STD-02HVA205J3400D	2	65	270	1083	2160	40	2.9	35	30
STD-02HVA225J3400D	2.2	90	270	1083	2380	40	2.7	40	35
STD-02HVA255J3400D	2.5	90	270	1083	2700	40	2.5	40	35
STD-02HVA305J3400D	3	90	270	1083	3240	40	2.4	55	50
STD-02HVA405J3400D	4	90	270	1083	4330	40	2.2	60	55

STD-02HVA: 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. Irms 70C	Max. Irms 85C
STD-02HVA105J4000D	1	65	270	1083	1620	40	3	35	30
STD-02HVA125J4000D	1.2	65	270	1083	2160	40	2.9	35	30
STD-02HVA155J4000D	1.5	90	270	1083	2380	40	2.7	45	35
STD-02HVA205J4000D	2	90	270	1083	2700	40	2.5	50	45

STD-02HVA: 5000Vdc / 2000Vac

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. Irms 70C	Max. Irms 85C
STD-02HVA105J5000D	1	90	295	2380	2380	50	3	40	35
STD-02HVA125J5000D	1.2	90	295	2380	2850	50	2.8	45	40
STD-02HVA155J5000D	1.5	90	295	2380	3570	50	2.7	50	45

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