

10 High Frequency Resonant Capacitors : STDA-AN / STDA-03LM series

Applications :

- High frequency, resonance and high current
- High-end medical equipment
- X-ray, laser
- Power supply

Features :

- high frequency, fast resonance
- high current
- high peak current
- high dv/dt
- low loss, low inductance, Ultra-low ESR
- 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 : 360Vac – 700Vac / 1,000Vdc – 1,500Vdc

Capacitance : 1.5uF – 4uF

Maximum Ripple Current : up to 250A at 70C

Peak discharge current - I peak : up to 24,000A

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

Testing Voltage : Vdc / Vac x 1.6Un 10sec (can be customized design)

Insulation Resistance : 250Vdc +23C >= 50,000Mohm

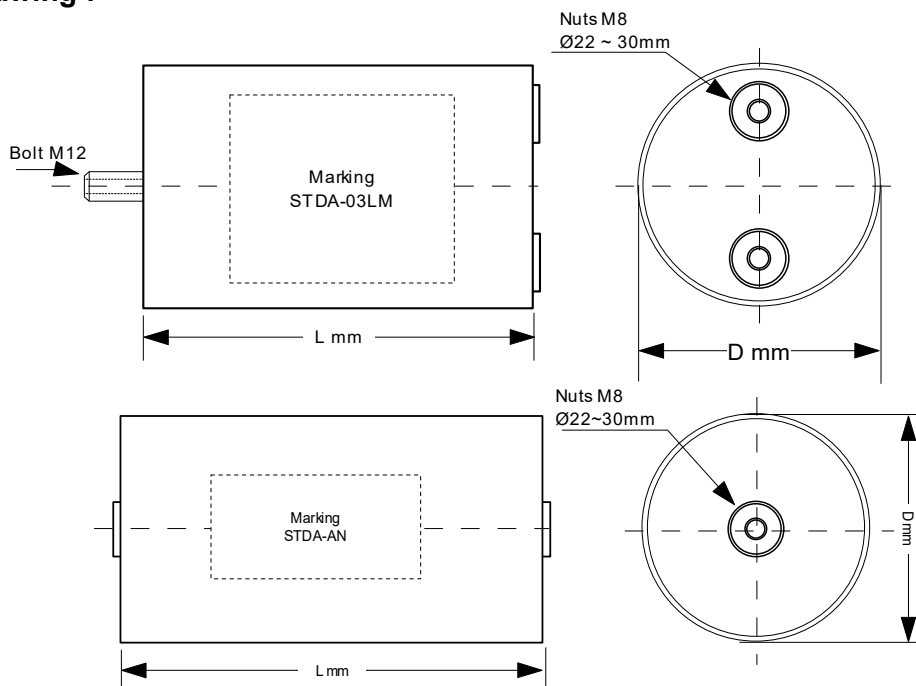
Low ESR and series Inductance

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 :**STDA-AN / STDA-03LM: 360Vac / 1000Vdc**

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	Rθ C/W +70C
STDA-AN155K360A / STDA-03LM155K360A	1.5	90	105	5800	8700	11	1.05	80	1.49
STDA-AN205K360A / STDA-03LM205K360A	2	90	105	5800	11600	11	0.78	100	1.15
STDA-AN225K360A / STDA-03LM225K360A	2.2	90	140	5200	11440	12	0.78	100	1.15
STDA-AN255K360A / STDA-03LM255K360A	2.5	90	140	5200	13000	12	0.7	120	0.89
STDA-AN305K360A / STDA-03LM305K360A	3	90	140	5200	15600	12	0.58	120	0.84
STDA-AN335K360A / STDA-03LM335K360A	3.3	90	176	4700	15510	14	0.58	120	0.84
STDA-AN405K360A / STDA-03LM405K360A	4	90	176	4700	18800	14	0.48	150	0.74

STDA-AN / STDA-03LM: 500Vac / 1200Vdc

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	Rθ C/W +70C
STDA-AN155K500A / STDA-03LM155K500A	1.5	90	105	6400	9600	11	1.1	100	1.18
STDA-AN205K500A / STDA-03LM205K500A	2	90	105	6400	12800	11	0.82	120	1.10
STDA-AN225K500A / STDA-03LM225K500A	2.2	90	140	5760	12672	12	0.82	120	1.10
STDA-AN255K500A / STDA-03LM255K500A	2.5	90	140	5760	14400	12	0.73	120	1.04
STDA-AN305K500A / STDA-03LM305K500A	3	90	140	5760	17280	12	0.61	150	0.95
STDA-AN335K500A / STDA-03LM335K500A	3.3	90	176	5200	17160	14	0.6	150	0.89
STDA-AN405K500A / STDA-03LM405K500A	4	90	176	5200	20800	14	0.5	150	0.85

STDA-AN / STDA-03LM: 600Vac / 1300Vdc

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	Rθ C/W +70C
STDA-AN155K600A / STDA-03LM155K600A	1.5	90	105	6700	10050	11	1.05	100	1.240
STDA-AN205K600A / STDA-03LM205K600A	2	90	105	6700	13400	11	0.81	120	1.140
STDA-AN225K600A / STDA-03LM225K600A	2.2	90	140	6300	13860	12	0.8	130	1.040
STDA-AN255K600A / STDA-03LM255K600A	2.5	90	140	6300	15750	12	0.72	130	0.990
STDA-AN305K600A / STDA-03LM305K600A	3	90	140	6300	18900	12	0.6	150	0.925
STDA-AN335K600A / STDA-03LM335K600A	3.3	90	176	5700	18810	14	0.56	150	0.870
STDA-AN405K600A / STDA-03LM405K600A	4	90	176	5700	22800	14	0.47	150	0.850

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

STDA-AN / STDA-03LM: 630Vac / 1400Vdc

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	R θ C/W +70C
STDA-AN155K630A / STDA-03LM155K630A	1.5	90	105	6500	9750	11	1.1	120	0.950
STDA-AN205K630A / STDA-03LM205K630A	2	90	105	6500	13000	11	0.82	120	0.930
STDA-AN225K630A / STDA-03LM225K630A	2.2	90	140	5700	12540	12	0.82	200	0.460
STDA-AN255K630A / STDA-03LM255K630A	2.5	90	140	5700	14250	12	0.73	220	0.450
STDA-AN305K630A / STDA-03LM305K630A	3	90	140	5700	17100	12	0.61	220	0.440
STDA-AN335K630A / STDA-03LM335K630A	3.3	90	176	5700	18810	14	0.6	250	0.430
STDA-AN405K630A / STDA-03LM405K630A	4	90	176	5700	22800	14	0.5	250	0.415

STDA-AN / STDA-03LM: 700Vac / 1500Vdc

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	R θ C/W +70C
STDA-AN155K700A / STDA-03LM155K700A	1.5	90	105	6700	10050	11	1.1	120	0.950
STDA-AN205K700A / STDA-03LM205K700A	2	90	105	6700	13400	11	0.82	120	0.930
STDA-AN225K700A / STDA-03LM225K700A	2.2	90	140	6400	14080	12	0.82	200	0.460
STDA-AN255K700A / STDA-03LM255K700A	2.5	90	140	6400	16000	12	0.73	220	0.450
STDA-AN305K700A / STDA-03LM305K700A	3	90	140	6400	19200	12	0.61	220	0.440
STDA-AN335K700A / STDA-03LM335K700A	3.3	90	176	6000	19800	14	0.6	250	0.430
STDA-AN405K700A / STDA-03LM405K700A	4	90	176	6000	24000	14	0.5	250	0.415

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