

# STA series Snubbing and High pulse application



### FEATURES

- Dry type structure
- High pulse current
- Low inductance
- Self-healing
- Transition metal layer

### APPLICATIONS

- IGBT snubbing
- Frequency inverter/Welding machine
- Solar/wind inverter
- Switching Power supply
- Induction heater machine.

## STA SERIES AXIAL CAPACITORS

STA series axial leaded film capacitors have polypropylene film and dual metallized electrodes for both self healing properties and high peak current carrying capability (dV/dt). This series features low ESR characteristics, excellent high frequency and high voltage capabilities. Widely used for snubber, IGBT and semiconductor power circuit.

### ELECTRICAL CHARACTERISTICS

Capacitance Range:	0.001-10 $\mu$ F
Operating Temperature:	-40 $^{\circ}$ C ~ +105 $^{\circ}$ C * (Default value 85 $^{\circ}$ C - derated using at 105 $^{\circ}$ C)
Capacitance Tolerance:	$\pm$ 5%(J); $\pm$ 10% (K)
Rated Voltage (U <sub>n</sub> ):	630 ~ 3000V <sub>dc</sub> (380V <sub>ac</sub> ~ 2000V <sub>ac</sub> )
Test Voltage between Terminal:	1.5 ~ 1.75U <sub>n</sub> 60s
Dissipation factor:	Tg $\theta$ $\leq$ 0.0008 (10kHz, 20 $^{\circ}$ C)
Leads:	Pins, tinned copper lugs, wire
Lifetime Expectancy:	$\geq$ 100,000Hours (U <sub>n</sub> $\leq$ 70 $^{\circ}$ C)

### OUTLINE DRAWING

CATEGORIES	DRAWING	CUSTOMIZATION	OPTIONS
o BODY		Variable A	0.8/1.0 /1.2/2.0mm M5/M8 bolts
		Variable B	Any length
o CROSS VIEW		Variable C	Oval/ Round

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## COMMON DESIGN

Rated voltage	Capacitance (µF)	Dimensions (mm)				Weight (g)
		L	T	H	D	
630V <sub>dc</sub> /380V <sub>ac</sub>	0.22	30	10	17		5
	0.22	29			12	5
	0.45	30	16	23		10
	1.0	32	20	28		15
	1.0	34			20	16
	6.8	57	33	46		77
1200V <sub>dc</sub> /600V <sub>ac</sub>	0.1	30	8	14.5		3
	0.47	32	17	23		11
	0.47	34			21.5	11
	1.0	37	22.5	30.5		22
	3.0	57	28.5	37.5		53
1700V <sub>dc</sub> /650V <sub>ac</sub>	0.1	30	13	19.5		7
	0.47	37	17	26.5		16
	0.47	39			26.6	18
	1.0	37	27	36.5		32
	3.0	57	33.5	46		76
2000V <sub>dc</sub> /700V <sub>ac</sub>	0.22	44			24	19
	0.47	37	22	31.5		23
	1.0	57	23	32.5		38
3000V <sub>dc</sub> /800V <sub>ac</sub>	0.01	40	7	13.5		4
	0.047	40	11.5	17.5		7
	0.1	40	16.5	26		16
	0.1	40			22	16

\* CABO reserves the right to make changes without further notice to any products herein to improve reliability, function or design.

\* Other values and dimensions are available on request.

## RELATED CAPACITOR SERIES

		
SPB	DMC	PEO

CABO is a leading brand of high reliability capacitors, providing specifically designed solutions to meet the reliability needs of industrial, military, medical and specialized applications worldwide.

As a well-known brand of China, CABO capacitors are among the world's most reliable component. Focus on High-End global markets and High reliability request fields, providing customization services. With world-class design, testing and manufacturing facilities in China, enable the quick turn-around for fast and mass delivery worldwide.

Our extensive custom design and development capabilities coupled with standardized mass production capacity offerings allow us to be a competitive option for power electronics industry.