

THB Grade Box type AC Filtering Capacitors



APB series High robustness under high Temp. and high Humidity



FEATURES

- Dry type structure
- Long lifetime expectancy
- High over-voltage and over-current
- Self-healing
- **THB Grade IIIB***

APPLICATIONS

- AC output filter
- LCL filter
- UPS system
- Solar inverter



*THB Grade IIIB: 85°C / 85%RH, 1000h at U_{nac}

DPB SERIES THB GRADE BOX TYPE DC LINK CAPACITOR

The APB capacitor is constructed of metallized polypropylene film encapsulated with epoxy resin in a plastic box, with 2 or 4 tinned copper wire leads out. These APB series is suitable for harsh environment conditions and compliant to THB Grade IIIB. Widely used in high performance AC filtering circuit, like renewable energy, UPS system and other outdoor applications.

ELECTRICAL CHARACTERISTICS

Capacitance Range:	1~50 μ F
Rated Operating Temperature:	-40°C~+85°C (105°C Max.)
Capacitance Tolerance:	±5%(J); ±10% (K)
Rated AC Voltage (50/60Hz, U_n):	250V _{ac} 310V _{ac} 350V _{ac} 480V _{ac} *
Test Voltage between Terminal:	1.5 U_{nac} 10s
Insulation Resistance:	$R \cdot C \geq 5000s$ (100V _{dc} , 60s, 25±8°C)
Max.Altitude:	<4000m
Flame Resistance:	UL 94 V-0
Lifetime Expectancy:	≥100,000 Hours ($U_n, \theta_{h.s.} \leq 70^\circ C$)
Failure:	50FIT

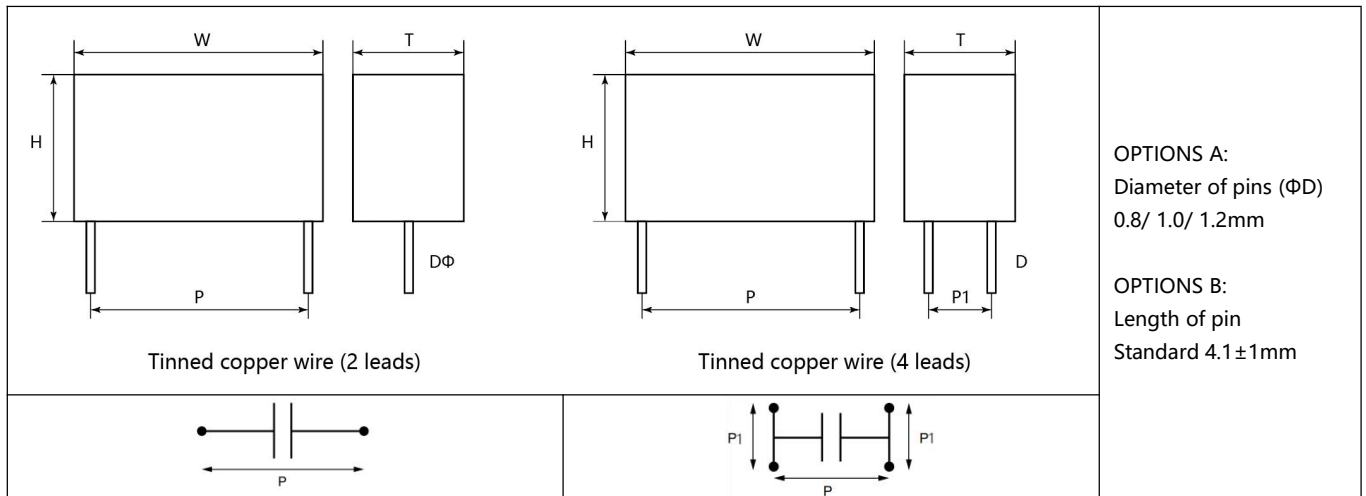
Rated ac Voltage	250V _{ac}	310V _{ac}	350V _{ac}	480V _{ac}
Rated dc Voltage	500V _{dc}	630V _{dc}	700V _{dc}	1000V _{dc}

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OUTLINE DRAWING



COMMON DESIGN

Rated Voltage	Capacitance (μF)	Dimensions (mm)			Pitch (mm)		RMS current (A)
U_{nac}	C_n	W	T	H	P	P1	I_{rms}^*
250	5.0	32	21	31	27.5	/	9
	8.0	32	22	38	27.5	/	12
	10	42	21.5	38.5	37.5	10.2	11
	15	42	30	45	37.5	20.3	15
	20	42	30	45	37.5	20.3	17.5
	35	57.5	35	50	52.5	20.3	19.5
310	5.0	42	21.5	38.5	27.5	10.5	10
	8.0	42	30	45	37.5	20.3	14.5
	10	42	30	45	37.5	20.3	16.5
	15	57.5	30	45	52.5	20.5	16
	20	57.5	35	50	52.5	20.3	19.5
350	2.0	32	18	28	27.5	/	4.5
	4.0	32	22	31	27.5	/	11.5
	5.0	42	21.5	38.5	37.5	10.2	11
	8.0	42	30	45	37.5	20.3	16.5
	10	42	30	45	37.5	20.3	19
	12	57.5	30	45	52.5	20.3	16
	15	57.5	30	45	52.5	20.3	18.5
	20	57.5	35	50	52.5	20.3	23
	22	57.5	35	50	52.5	20.3	24.5

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Rated Voltage (V)	Capacitance (μF)	Dimensions (mm)			Pitch (mm)		RMS current (A)
U_{ndc}	C_n	W	T	H	P	P1	I_{rms}^*
480	2.0	42	21.5	38.5	37.5	10.2	10
	3.0	42	30	45	37.5	20.3	14
	4.0	57.5	30	45	52.5	20.3	13
	5.0	57.5	30	45	52.5	20.3	14.5
	7.0	57.5	35	50	52.5	20.3	18.5

* I_{rms} is the max rms current @ 10kHz, $\theta_{amb}=70^{\circ}C$, $\theta_{case}=15^{\circ}C$.

* 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	AMC

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.