

DPB series High robustness under high Temp. and high Humidity



FEATURES

- · Dry type structure
- Long lifetime expectancy, up to 25 years
- High over-voltage and over-current
- Self-healing
- · High capacitance density
- THB Grade IIIB*

APPLICATIONS

- Motor drives
- Solar inverter
- UPS system
- Welding equipment





*THB Grade IIIB: 85°C/85%RH, 1000h at Undc

DPB SERIES THB GRADE BOX TYPE DC LINK CAPACITOR

The DPB 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 DPB series is suitable for harsh environment conditions and compliant to THB Grade IIIB. Widely used in high performance DC Link, DC filtering, frequency converters, industrial power supply, solar inverter and energy storage.

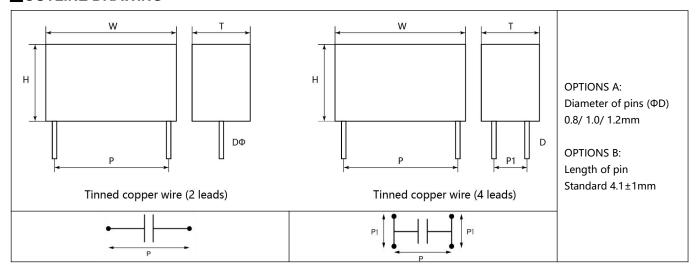
■ELECTRICAL CHARACTERISTICS

Capacitance Range:	1∼500µF
Operating Temperature:	-40℃~+85℃ (105℃ at voltage derating)
Capacitance Tolerance:	±5%(J); ±10% (K)
Rated Voltage (U _n):	400~2000V _{dc}
Test Voltage between Terminal:	1.5U _n 60s
Operating voltage:	1.10U _n (30% of on load duration)
	1.15U _n (30mins/day)
	1.2U _n (5mins/day)
	1.3U _n (1min/day)
Insulation Resistance:	R*C \geqslant 5000s (100V _{dc} , 60s, 25 \pm 8 $^{\circ}$ C)
Max.Altitude:	<4000m
Flame Resistance:	UL 94 V-0
Lifetime Expectancy:	≥100,000 Hours (U _n , θ _{h.s.} ≤70°C)
Failure:	50FIT



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OUTLINE DRAWING



COMMON DESIGN

Rated Voltage	Capacitance (µF)	Dimensions (mm)		Pitch (mm)		RMS current (A)	
U _{ndc}	C _n	W	Т	Н	Р	P1	I _{rms}
500	10µF	41	13	24	37.5	1	7
	20µF	42	18	31.5	37.5	1	10
	50µF	42.5	30	45	37.5	20	16
	100µF	57.5	35	50	52.5	20	18
	150µF	57.5	42.5	56	52.5	20	22
600	10µF	41	13	24	37.5	/	7
	15µF	41	16	28.5	37.5	1	9
	30µF	41	22	37	37.5	10	12
	60µF	42.5	30	45	37.5	20	17
	100µF	57.5	35	50	52.5	20	18
700	10µF	41	16	28.5	37.5	/	8
	15µF	41	18	31.5	37.5	1	10
	20μF	41	22	37	37.5	10	12
	30µF	42	26	41	37.5	15	14
	40µF	42.5	30	45	37.5	20	17
	50μF	56.5	26.8	39.2	52.5	15	16
	60µF	57.5	30	45	52.5	20	17
	80µF	57.5	35	50	52.5	20	19
	100µF	57.5	38	54	52.5	20	22



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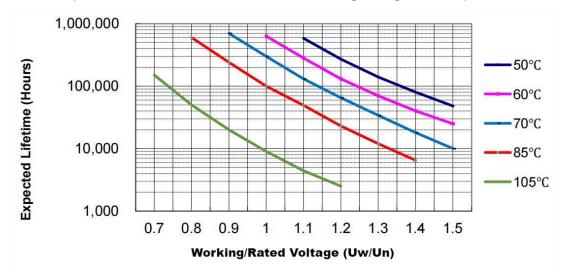
Rated Voltage (V)	Capacitance (µF)	Dimensions (mm)			Pitch	(mm)	RMS current (A)
U _{ndc}	C _n	W	Т	Н	Р	P1	I _{rms}
800	10μF	41	18	31.5	37.5	1	10
	20μF	42	24	36	37.5	15	14
	40μF	56.5	26.8	39.2	52.5	15	16
	60µF	57.5	35	50	52.5	20	19
	80µF	57.5	38	54	52.5	20	22
	10μF	41	18	31.5	37.5	/	10
	15µF	41	22	37	37.5	10	12
900	30µF	42.5	30	45	37.5	20	16
	50μF	57.5	30	45	52.5	20	17
	80µF	57.5	38	54	52.5	20	22
1000	10μF	41	22	37	37.5	10	12
	15µF	41	26	41	37.5	15	15
	20μF	42.5	30	45	37.5	20	17
	30µF	57.5	30	45	52.5	20	17
	50μF	57.5	38	54	52.5	20	22
1100	10μF	41	22	37	37.5	10	12
	15µF	41	26	41	37.5	15	15
	20μF	42.5	30	45	37.5	20	17
	50μF	57.5	38	54	52.5	20	22
1200	10μF	41	26	41	37.5	15	14
	20µF	57.5	30	45	52.5	20	16
	30μF	57.5	35	50	52.5	20	20

^{*} 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.



DPB series High robustness under high Temp. and high Humidity Expected lifetime curve under different working voltage and temperature



For capacitors application, various factors will affect the expected life of capacitors such as voltage, temperature, current, network harmonics, lighting or radiation and other unknown factors. The above lifetime curve only considers the effects of voltage and temperature. Based on the qualified results of long-term durability test, the lifetime curve of the capacitor under different working conditions is calculated by using the theoretical calculation formula of lifetime. Therefore, the lifetime curve is only used as a reference for selection, and does not represent the actual service life of the capacitor, nor does it represent the quality assurance requirements.

■RELATED CAPACITOR SERIES



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.