

Slim Film Capacitors for Mid-Power Electronics



RoHS
COMPLIANT

KEY BENEFITS

- Slim design – low profile
- High CV product (2 μF to 100 μF ; 500 V to 1000 V)
- Long useful life time (> 100 000 h, at U_{NDC} and 70 °C)
- High ripple current capabilities (up to 17.5 A), low ESR (3.5 m Ω), low ESL (< 1 nH per mm lead spacing)
- Operating temperature up to 105 °C

APPLICATIONS

- Renewable energy sources such as solar micro-inverters
- On-board chargers for hybrid electrical vehicles
- Battery chargers for electrical vehicles
- LED street lighting

RESOURCES

- Datasheet: MKP1848S DC-Link - <http://www.vishay.com/doc?26010>
- For technical questions contact dc-film@vishay.com



FEATURES

Low height: 12/15/18/24 (mm)

REFERENCE STANDARDS

IEC 61071, IEC 60068

RATED CAPACITANCE

2 μ F to 100 μ F

CAPACITANCE TOLERANCE

$\pm 5\%$

MAXIMUM APPLICABLE PEAK TO PEAK RIPPLE VOLTAGE

$0.2 \times U_{NDC}$

SELF INDUCTANCE (LS)

< 1 nH per mm of lead spacing

RATED TEMPERATURE

85 °C

MAXIMUM PERMISSIBLE CASE TEMPERATURE

105 °C, observing voltage derating

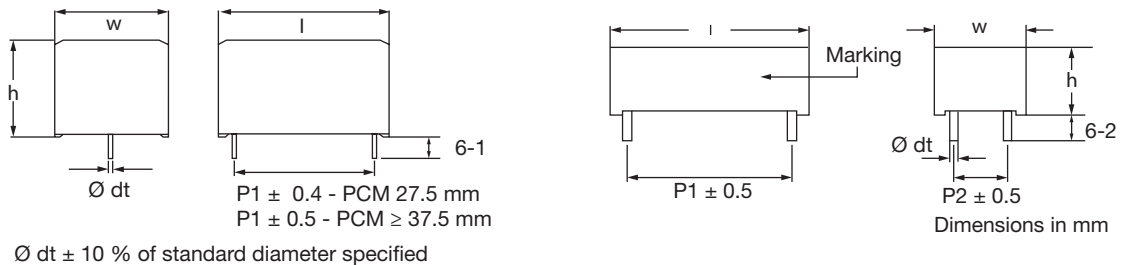
LIFE TIME EXPECTANCY

Useful life time: > 100.000 h at U_{NDC} and 70 °C

FIT: $< 10 \times 10^{-9}$ /h (10 per 10^9 component hours) at $0.5 \times U_{NDC}$, 40 °C

RANGE

	HEIGHT (mm)	PITCH (mm)	C (μ F)										
			2	3	5	7	10	15	20	30	50	100	
500 V_{NDC} @ 85 °C 600 V _{OPDC} @ 75 °C 350 V _{OPDC} @ 105 °C	12 and 15	27.5											
		37.5											
		52.5											
	18	27.5											
		37.5											
		52.5											
	24	27.5											
		37.5											
		52.5											
700 V_{NDC} @ 85 °C 800 V _{OPDC} @ 75 °C 500 V _{OPDC} @ 105 °C	12 and 15	27.5											
		37.5											
		52.5											
	18	27.5											
		37.5											
		52.5											
	24	27.5											
		37.5											
		52.5											
1000 V_{NDC} @ 85 °C 1200 V _{OPDC} @ 75 °C 750 V _{OPDC} @ 105 °C	12 and 15	27.5											
		37.5											
		52.5											
	18	27.5											
		37.5											
		52.5											
	24	27.5											
		37.5											
		52.5											



单击下面可查看定价，库存，交付和生命周期等信息

[>>Vishay\(威世\)](#)

[>>点击查看相关商品](#)