



FILM CAPACITORS

MKP1848C

Capacitors - Broad Capacitance Range/Compact Design

Metallized Polypropylene Film Capacitor DC-Link Capacitor



KEY BENEFITS

- Broad voltage and capacitance range, up to 500 $\mu\text{F}/500\text{ V}$ to 140 $\mu\text{F}/1200\text{ V}$
- High density design: more capacitance per mm^3
- High RMS current capabilities up to 55 A_{RMS}
- Operating temperature up to 105 $^{\circ}\text{C}$
- Low ESR, starting at 1.5 $\text{m}\Omega$
- Halogen-free and Vishay Green

APPLICATIONS

- Solar inverters
- Wind inverters
- Motor drives
- Battery chargers
- UPS systems
- Switch mode power supplies

RESOURCES

- Datasheet: MKP1848C - www.vishay.com/doc?26015
- For technical questions contact dc-film@vishay.com
- Material categorization: For definitions of compliance please see <http://www.vishay.com/doc?99912>



RoHS
COMPLIANT

HALOGEN
FREE

GREEN
(5-2008)**

One of the World's Largest Manufacturers of
Discrete Semiconductors and Passive Components



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FEATURES

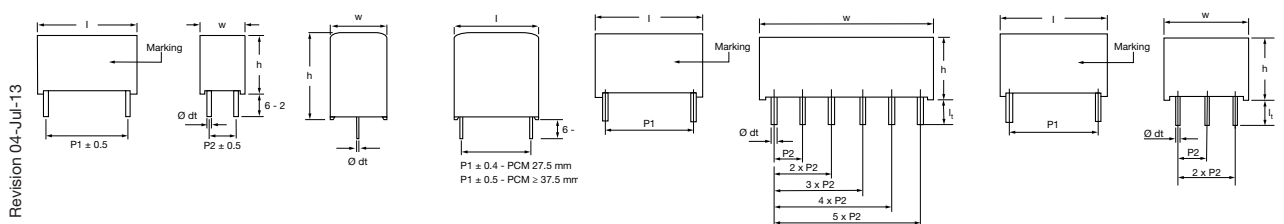
- Very long useful life time: up to 100 000 h at U_{NDC} and 70 °C
- High ripple current capability, low ESR, low ESL
- Operating temperature up to 105 °C
- Available in 2, 4, 6, and 12 pins
- Rated capacitance from 1 μ F up to 500 μ F



RANGE

	Pitch (mm)	C (μ F)																																																			
		1	2	3	4	5	6	7	8	9	10	12	15	18	20	22	25	30	35	40	50	55	60	65	70	75	80	90	100	110	120	140	160	200	240	250	320	400	500														
500 V_{NDC}	27.5																																																				
	37.5																																																				
	52.5																																																				
600 V_{NDC}	27.5																																																				
	37.5																																																				
	52.5																																																				
800 V_{NDC}	27.5																																																				
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1000 V_{NDC}	27.5																																																				
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1200 V_{NDC}	27.5																																																				
	37.5																																																				
	52.5																																																				

DC VOLTAGE RATINGS						
U_{NDC} at 85 °C	500 V	600 V	800 V	900 V	1000 V	1200 V
U_{OPDC} at 70 °C	600 V	720 V	960 V	1100 V	1200 V	1440 V
U_{OPDC} at 105 °C	350 V	420 V	560 V	650 V	700 V	850 V



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