

THB AC and Pulse Metallized Polypropylene Film Capacitors High Temperature, AEC-Q200 Qualified



KEY BENEFITS

- AEC-Q200 qualified (rev. D)
- THB 60 °C 93 % RH for 56 days at rated voltage
- Maximum operating temperature up to 125 °C
- Capacitance from 0.001 µF to 15 µF
- Rated voltage from 400 V_{DC} to 2500 V_{DC}
- Customization possible

APPLICATIONS

MKP385e film capacitors designed for hybrid and electrical vehicles and their peripheries including onboard and inductive charging systems, battery management, high pulse and high frequency currents, snubbing, and resonant converters

RESOURCES

- Datasheet: MKP385e - www.vishay.com/ppg?28255
- For technical questions contact dc-film@vishay.com



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The MKP385e Vishay Automotive Grade capacitor was designed for automotive applications where pulse, high frequency, and high AC current capabilities are required. Suited for resonant tank circuits, snubbing, and high frequency converters, the MKP385e features high robustness under high humidity and maximum operation temperature of 125 °C for a limited period of < 500 hours with reduced voltage. The MKP385e part of Vishay's MKP radial film capacitor product line, fulfilling the requirements of IEC 60384-17 and AEC-Q200 qualified (Rev. D).

- Monolithic construction for voltage ranges up to 630 V_{DC} and series film construction for voltage ratings > 630 V_{DC}
- Available with ratings from 0.001 μF up to 15 μF
- Withstand 60 °C at 93 % RH at rated DC voltage for 56 days
- Ensure longer service times with stable high pulse strength, high ripple current capabilities, and small case dimensions
- Compliant to RoHS Directive 2011/65/EU and REACH (SVHC) regulation (1907/2006/EC)

MKP385e		
U _{RDC} (μF)	MIN. CAPACITANCE (μF)	MAX. CAPACITANCE (μF)
400	0.047	15
630	0.027	15
850	0.01	4.7
1000	0.018	3.3
1250	0.0082	2.7
1600	0.0039	1.2
2000	0.001	0.68
2500	0.001	0.39