KEMET
a YAGEO company

Overview

Metallized Polypropylene Film (MKP)

DC-Link capacitors use thin polypropylene film as their dielectric and are found in power converter circuits for DC filtering, and energy storage. These capacitors are stable over temperature, frequency and time. They have low DF, excellent self-healing capability, and long operational lifetimes.

Device Applications

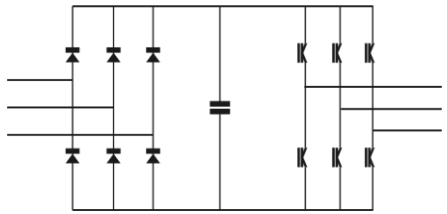
- Inverters
  - Green Energy: Solar and Wind
  - Automotive: Traction (C4E)
- On-Board Battery Charger
- Regenerative drives
- Motor Drives
- Welding Machines
- SMPS

Benefits

- High Capacitance Density
- Extended life at >100,000 hours at VN at rated hot spot temperature
- High Reliability
- High ripple Current

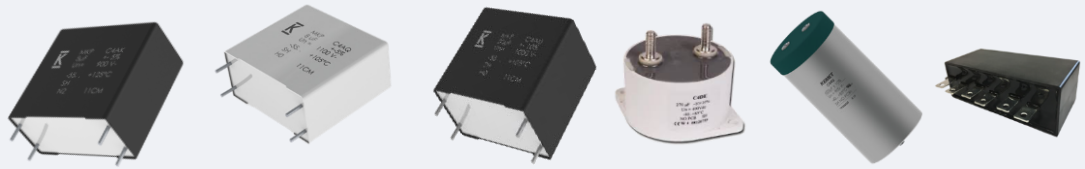
Applications

- DC link
- DC filtering
- Energy Storage



PRODUCT SELECTION

DC-Link Film Capacitors



	C4AK	C4AQ	C4AU	C4DE	C44U-M	C4E
Min C (µF)	1.5	1	1	47	90	100
Max C (µF)	60	210	210	380	4,500	1,800
Max. Voltage (Vdc)	900 (2)	1,500 (1)	1,200 (2)	1,000	1,800	1,800
Max. Temperature (°C)	135	125	125	85	85	105
Construction (Plastic or Metal)	Radial Plastic Box 2/4 leads	Radial Plastic Box 2/4 leads	Radial Plastic Box 2/4 leads	Plastic Canister	Metal Canister	Plastic & Metal Brick
Power Level (kVA)	Low	Medium	Medium	Medium	High	High
Max. dv/dt (V/µs)	40	90	90	37	19	--
Harsh Environment	●	●	●			
Industry						

(1) Rated Voltage at 70 °C (2) Rated Voltage at 85 °C