KEMET
a YAGEO company

PRODUCT SELECTION

DC-Link Power Box Capacitors

Overview

Metallized Polypropylene, Power Box, Film (MKP)

DC-Link capacitors use thin polypropylene[3] 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

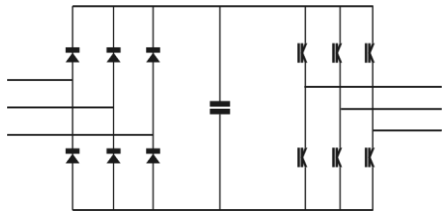
- Inverters
  - Green Energy: Solar and Wind
  - Automotive: Traction (C4E)
- On-Board Battery Charger
- Regenerative drives
- Motor Drives
- Welding Machines
- SMPS

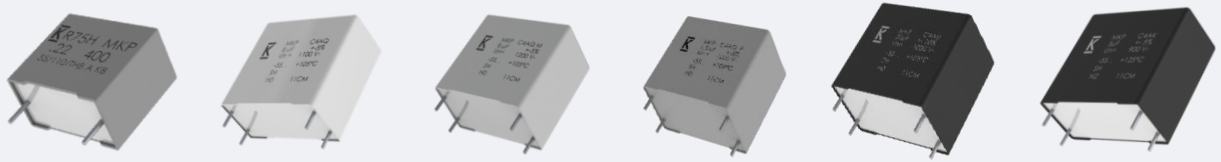
Benefits

- High Capacitance Density
- Extended life at >200,000 hours at VN at rated hot spot temperature
- High Reliability
- High ripple Current

Applications

- DC link
- DC filtering
- Energy Storage





	R75H High Current	C4AQ standard	C4AQ M miniaturized	C4AQ-P high temp. extended life	C4AU Harsh environment	C4AK highest temp. extended life
Min C (µF)	1	1	1.1	1	1	1.5
Max C (µF)	33	210	210	210	210	60
Max. Voltage (Vdc)	2,000	1,500 (1)	1,200 (2)	1,100(2)	1,200(2)	900(2)
Max. Temperature (°C)	125	125	125	125	85	135
Life (h)		200	200	4,000	200	1,000
Construction	Radial Plastic Box 2 leads	Radial Plastic Box 2/4 leads				
Power Level (kVAr)	13	4	4	5	4	2
Max. dv/dt (V/µs)	9,500	33	90	37	19	--
Harsh Environment 60°C / 95% RH, 1,000h, Vr		●	●			
85 C / 85 % RH, 1000h, Vr	●			●(4)	●	●
Industry						

(1) Rated Voltage at 70 °C (2) Rated Voltage at 85 °C (3) C4AK uses a new polypropylene mixed material (4) C4AQ-P Tested at 55%Vr

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