



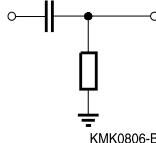
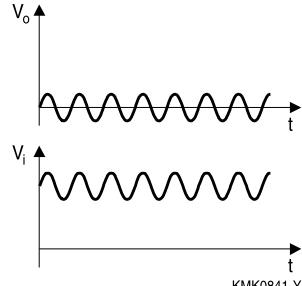
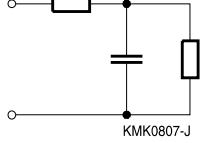
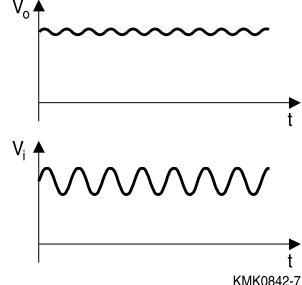
Film Capacitors

Typical applications

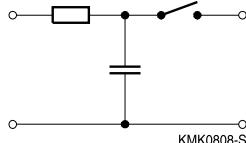
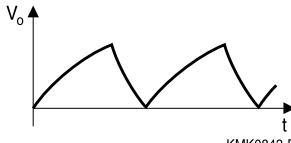
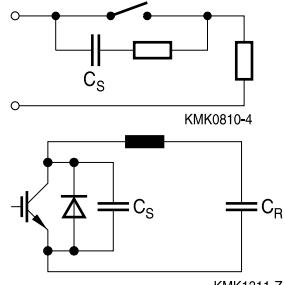
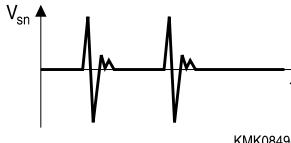
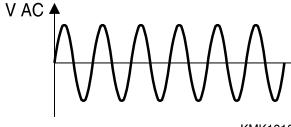
Date: May 2009

Typical applications

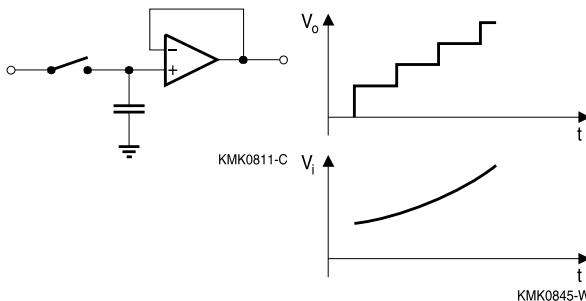
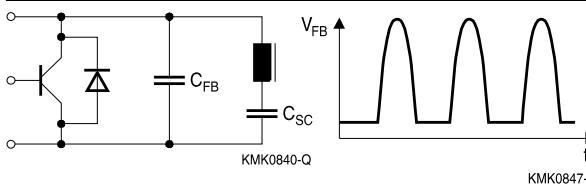
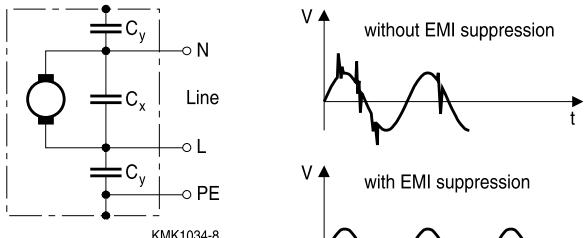
Typical applications of film capacitors

Application	Requirements	Series
Blocking / Coupling		
 KMK0806-B	 KMK0841-Y	High R_{ins} Low L_S MKT B32520...529 B32560...564 B32591...594
The capacitor acts as a high-pass filter: - Preventing DC voltages (blocking) - Transferring only the AC load (coupling)		
Bypass / Decoupling / DC link / Smoothing		
 KMK0807-J	 KMK0842-7	High R_{ins} Low L_S MKT B32520...529 B32560...564 B32591...594 B32231...232
The capacitor acts as a low-pass filter, preventing the transmission of AC voltages, suppressing fast transient changes and providing enough energy to the load.		

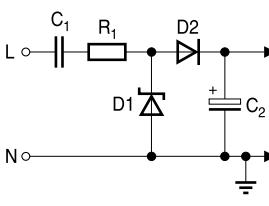
Typical applications

Application	Requirements	Series
Timing / Energy storage / Ignition		
 KMK0808-S	 KMK0843-F	Good pulse characteristics MKP B32620...621 B32651...656 B32612...614 B32669 B32671Z...673Z B32674...678 B32774...778
The capacitor stores a charge until a specific amount of time (time delay) has elapsed. The capacitor stores a charge and then releases it in a short energetic pulse.		
 KMK0810-4 KMK1311-Z	 KMK0849-U	Low tan δ Good pulse characteristics MKP B32651...656 B32656S B32671L...672L
C_s (Snubber): Capacitor protects semiconductors from over-voltages by high current switching. C_R (Resonant): LC system oscillates at a certain frequency.		
	 KMK1310-6	MFP B32686A B32686S B32632...634

Typical applications

Application	Requirements	Series
Sample and hold		
	High R_{ins} Low dielectric absorption	MKP B32656S MFP B32686S
<p>The capacitor stores a voltage until a sample is taken.</p>		
Flyback		
	Low $\tan \delta$ Good pulse characteristics	MKP B32651...654 B32612...614 B32671L...672L B32601L...602L MFP B32632...634
<p>When the deflection coil current flows into the flyback capacitor (C_{FB}), the electron beam is rapidly shifted from the right to the left side of the screen.</p>		
EMI suppression		
	Low flammability	MKP B32921...928 B32911...916 B32021...026 B81123
<p>A capacitor/resistor network on the input of a device suppresses external noise pulses that could damage its components.</p>		

Typical applications

Application	Requirements	Series
Capacitive power supply  <p>The capacitor C1 works as a voltage divider without thermal losses.</p>	High capacitance stability	MKP B32651... 656 B32922*7xx ... B32924*7xx