

## Overview

Pulse capacitors are defined as polypropylene film capacitors for applications that use the stable low dissipation factors required to handle high dV/dt and high ripple currents in power conversion applications. Based on its construction, pulse capacitor have the following advantages:

### Single Metallized Film

- Good ripple current performance
- High energy density
- Excellent Self-healing

### Double Metallized Film

- Higher Irms and dV/dt performance
- Capable of 125 °C
- Good Self-healing

### Polypropylene Film / Foil

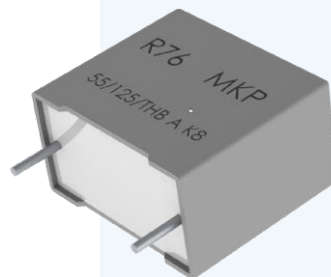
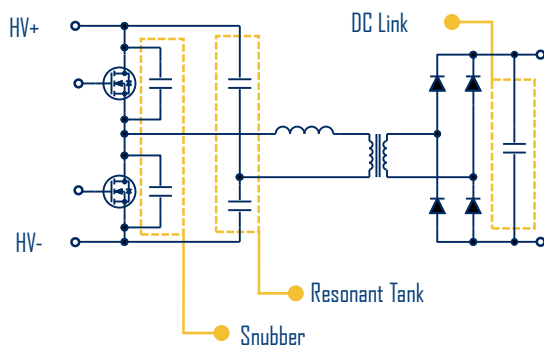
- Highest peak and pulsed current capability
- No self-healing

## Key Product Highlight

- **New R76H 125 °C Series** for Automotive AEC-Q200 and harsh environmental applications.
- THB : 85°C, 85% RH, 1,000 hours at 700 VAC – 2000 VDC Bias
- Highest Irms capability per volume in the industry.

## Typical Application

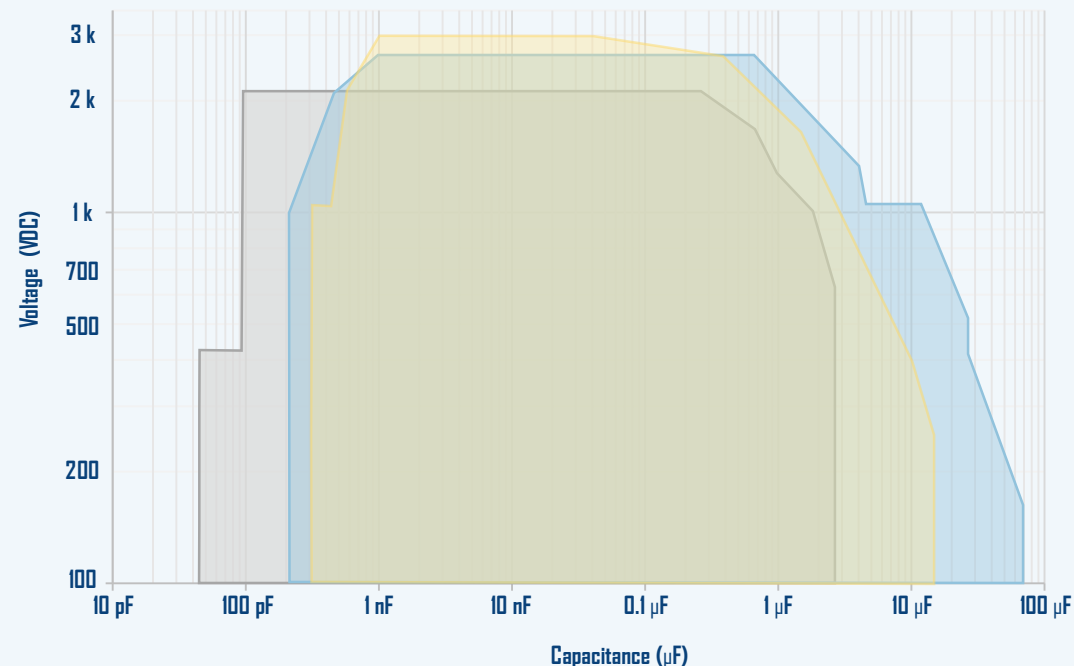
- SMPS Silicon-controlled rectifier (SCR and IGBT) and SiC (e.g. MOSFET).
- Commutation circuits, DC Link, Snubber, resonant converters, and tank circuits.



## MKP METALLIZED FILM Pulse Capacitors

### Product Selection

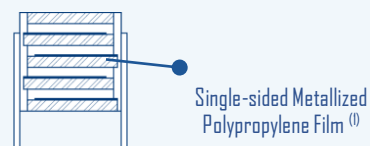
- Single Metallized
- Double Metallized
- PP Film / Foil



### Series Options

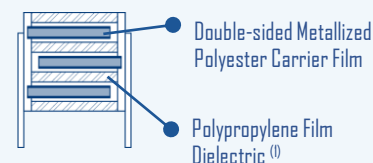
#### Single Metallized Film

R74 <sup>(2)</sup>	900 VAC -105 °C
R75 <sup>(2)</sup>	2000 VDC -105 °C
A70	630 VDC -105 °C
F46x	2500 VDC -105 °C



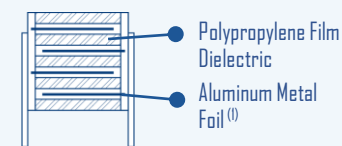
#### Double Metallized

R76 <sup>(2)</sup>	2000 VDC -105 °C
R76H <sub>125 °C</sub> <sup>(2)</sup>	2000 VDC -125 °C
PHE450	3000 VDC -105 °C



#### Polypropylene Film / Foil

R73 <sup>(2)</sup>	2000 VDC -105 °C
A72	2000 VDC -105 °C
PFR	1000 VDC -100 °C



<sup>(1)</sup> winding constructions used depend on voltage parameters

<sup>(2)</sup> Automotive AEC-Q200 rated