

## 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  $Ir_{rms}$  and  $dV/dt$  performance
- Capable of  $125^{\circ}\text{C}$
- Good Self-healing

### Polypropylene Film / Foil

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

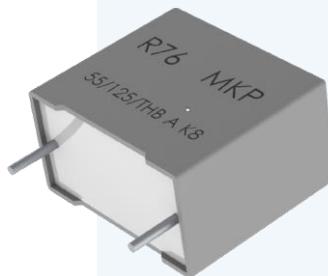
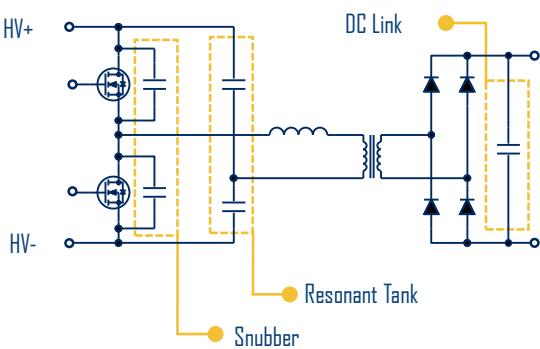
### Key Product Highlight

- New R76H  $125^{\circ}\text{C}$  Series for Automotive AEC-Q200 and harsh environmental applications.
- THB :  $85^{\circ}\text{C}$ , 85% RH, 1,000 hours at 700 VAC – 2000 VDC Bias
- Highest  $Ir_{rms}$  capability per volume in the industry.



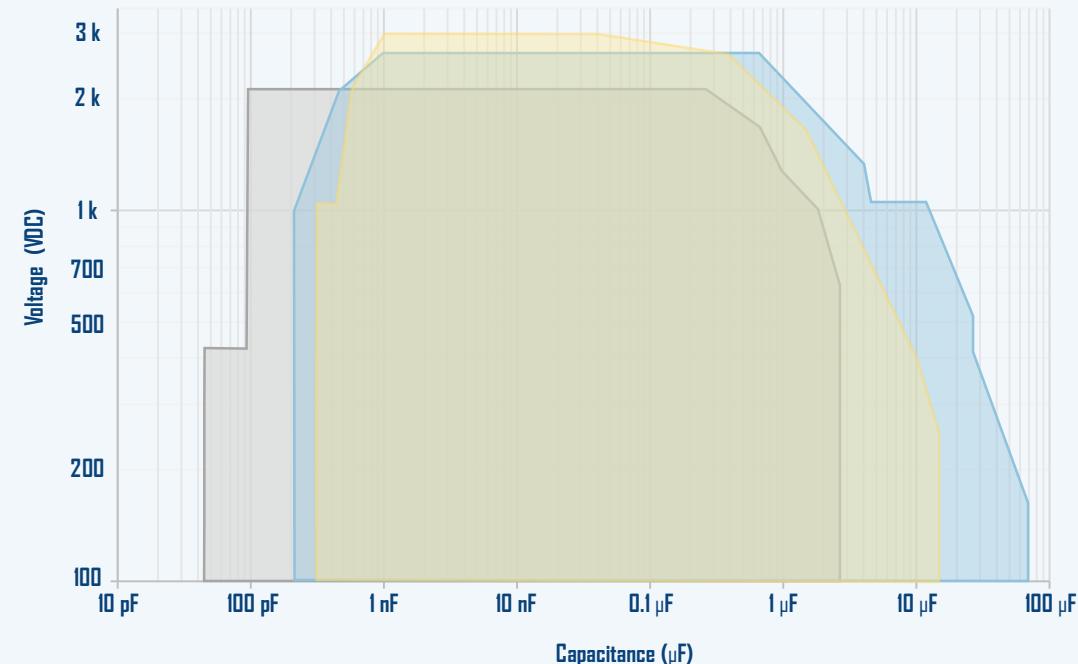
### Typical Application

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



### Product Selection

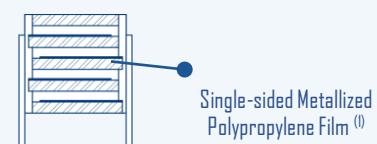
- Single Metallized
- Double Metallized
- PP Film / Foil



### Series Options

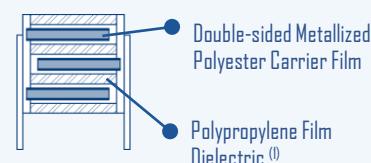
#### Single Metallized Film

- 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



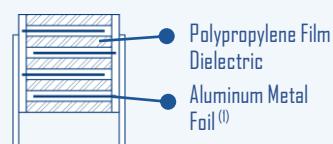
#### Double Metallized

- R76<sup>(2)</sup> 2000 VDC -105 °C
- R76H  $125^{\circ}\text{C}$ <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