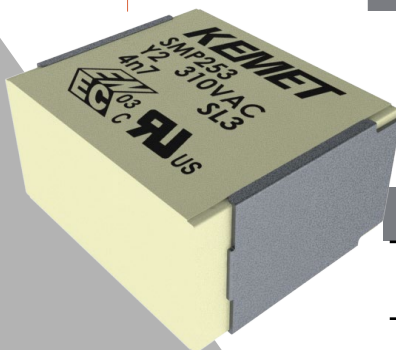


## PRODUCT OVERVIEW

The **SMP253** series Class **Y2**, 310VAC, **SMD** is a multilayer metallized paper capacitor designed for worldwide electromagnetic interference suppression applications, line-to-earth.

Encapsulated and impregnated in self-extinguishing UL 94 V-0 material, it provides excellent stability, **high reliability**, and **robust performance** under continuous operation and harsh environmental conditions



## CAPACITORS

### Film capacitor

## Stable EMI performance in compact SMD design

### Key Selling Points

#### Features

#### Customer Value

##### High dV/dt Capability

Handles fast transients, ensuring stable EMI suppression

##### Impregnated Metallized Paper Technology

Maintains stable performance during continuous operation

##### Self-Healing Properties

Extends operational lifetime and increases system safety

##### SMD Design

Enables compact layouts and efficient automated assembly

##### Safe Failure Mode (Y2 Class)

Designed for line-to-earth use with high safety requirements

#### Target Applications

- DC EMI Filter
- On- Board Chargers (OBC)
- Auxiliary Inverter, e.g.E-Compressor
- Switching Power Supply
- Water Pump

#### Market Advantages

- **SMD Y2 solution**→ Reduces PCB space and supports automated production
- **Stable performance under humidity and temperature stress**→ Suitable for demanding environments
- **Automotive-grade qualification**→ One platform for industrial and automotive designs
- **High impulse and transient capability**→ Reliable operation in real application conditions

### Quick Facts

**Capacitance Range:** 1.0 – 68 nF

**Voltage Range :** 310 VAC/up to 1500 VDC

**Temperature Range:** -40°C to +125°C

**Harsh Environment:** THB Grade IIB

### Contact & Information

For special requests (custom designs, lifetime extensions, etc.), contact regional Product Managers.

Visit our Product Pages on [YAGEOGroup.com](https://www.yageo.com)

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