

# KOA offers Ceramic Composition Surge / Pulse Resistors



KOA's HPC and PCF-series consists of a solid ceramic composition resistive element which is ideal to protect circuits against surges and to absorb high energy pulses.

The special non-inductive inner construction allows pulse voltages up to 25kV and is perfect for use in high voltage circuits, R-C snubber circuits and inrush limiters.

In most cases, there can be an advantage to replace several carbon-composition resistors by one ceramic resistor.

Compared to the PCF-series, the **HPC**-series has a smaller diameter, a longer body, a red/brown coating colour and is tested acc. to AEC-Q200 requirements.

The compact and thicker **PCF**-version uses a light green flame retardant coating (equivalent to UL94 V-0).

Both series meet EU-RoHS requirements.



HPC



PCF

## Product Features & Benefits

- Full ceramic body for HV and surge current
- Meets high energy density demands
- Robust against long time pulses (msec range)
- High reliability to disconnection
- Non-inductive
- Pulse voltages up to 25kV
- Power ratings up to 5W
- Wide temperature range up to +200°C
- ±10% Tolerance is standard
- Tested acc. to AEC-Q200 requirements (HPC)
- Flame retardant coating for PCF (equiv. to UL94 V-0)

## Application examples

- High voltage circuits
- R-C snubber circuits
- Inrush current limiting
- Medical HV-products
- X-Ray generators, lasers
- Electron microscopes
- Motor drives
- Dummy loads
- RF Amplifiers
- Pulse Modulators
- Power supply circuits for machine tools
- Noise suppressor of vehicle ignition system



KOA also offers this ceramic resistor construction with special caps.

Our CPCN / SPCN / PCN series are available in various termination styles without leads. e.g. with silver inner electrode and Ni or Sn plated iron end caps.

We recommend a connection to the circuit by a spring or a metal holder.

These series are typically used as excellent noise/spark attenuator in engine ignition circuit systems.

For detailed information, please contact:

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