DID YOU KNOW?

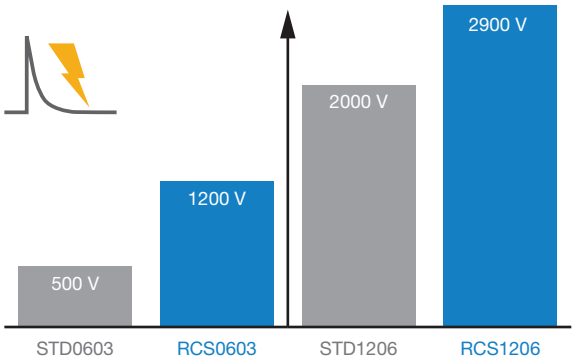
ANTI-SURGE HIGH POWER THICK FILM CHIP RESISTORS

Electronic equipment can be vulnerable to pulses or surges, which can be caused by a switching event. Many electronic circuits also require resistors delivering high power dissipation and high reliability in smaller case sizes. RCS series anti-surge thick film chip resistors are an excellent choice to meet these requirements.

Pulse and Surge Capability

The geometry of RCS series resistors allows for a larger resistive area and better dissipation of the heat generated by a pulse or instantaneous surge. The resistors' advanced trimming pattern facilitates homogeneous current distribution, avoiding local overheating of the resistive film.

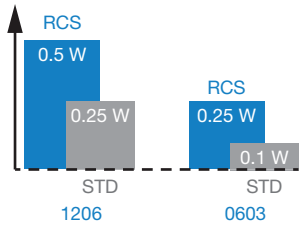
Surge Diagram (1.2 µs / 50 µs, 5 pulses)



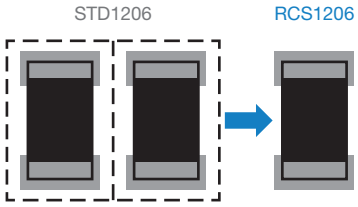
High Power Rating

The increased power rating allows for a component count reduction by replacing two to three standard components in the same case size. Since the power rating exceeds that of standard components in the next largest case size, board space savings can be also achieved by 1:1 replacement with a smaller component size.

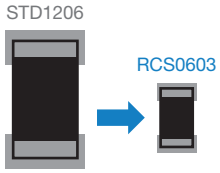
Power Rating



Space Saving



1:1 Replacement



- DC/DC converters
- Cell balancing
- Electronic transmission controls
- Inverters
- Industrial drives
- Power electronic systems

For more information on this series please visit: www.vishay.com/ppg?20065

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