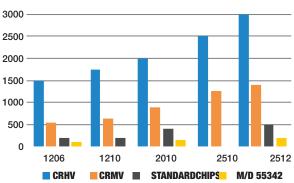


DID YOU KNOW? HIGH VOLTAGE THICK FILM CHIP RESISTORS

Most thick film chip resistors have very low voltage handling capability. A chip resistor with high voltage handling capability can present the following potential advantages to all new product designs:

- 1. Reduce component count on the PC board (use one HV resistor instead of five or six resistors in series)
- 2. Increased design flexibility (PC board layout with one or two components offers more flexibility than multiple components)
- 3. Reduce the overall weight of the PC board and the overall size of the finished product
- 4. Reduce the assembly (placement) costs
- 5. Improved board-level reliability due to fewer solder joints

Vishay Dale offers the AEC-Q200 qualified high voltage <u>CRMA</u> series for automotive / high reliability applications and two industrial thick film chip resistor families (CRHV and CRMV) in multiple case sizes and terminal configurations to meet various customer needs. The CRMA (AEC-Q200 qualified) series offers up to 1415 V of continuous voltage handling capability, along with the <u>CRMV</u> series industrial version.



VOLTAGE HANDLING

The <u>CRHV</u> series offers up to 3000 V of continous voltage handling capability.

Some Highlights Include:

- 1. AEC-Q200 qualified (CRMA series)
- 2. Multiple case sizes
- 3. Standard tin / lead and lead (pb)-free terminations for easy usage
- 4. Also offered in epoxy-bondable and and wire bondable-terminations

More details on the performance of these high voltage resistors can be found in the infographic titled "<u>High</u> <u>Voltage Chip Resistors</u>." High voltage thick film chip resistors are frequently used in applications that involve high voltages:

- Voltage monitoring
- Over-voltage protection

- Battery monitoring
- High voltage power supplies