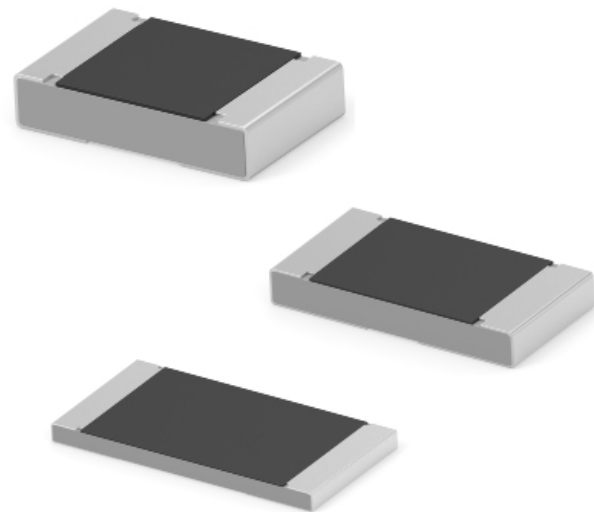


## INTRODUCING

# ALUMINUM NITRIDE THIN FILM POWER RESISTOR TYPE 3503 & 3504 SERIES

- High thermal conductivity Aluminum-Nitride substrate
- High Power / Size ratio - 6W in 2512 size



TE Connectivity (TE) Aluminum Nitride Thin Film Power Resistor type 3503 & 3504 series range offers high power / size ratio, 2W in 1206 size (3503 series) and 6W in 2512 size (3504 series). These resistors are introduced to the market as first-to-market with the high-power dissipation capability available for 1206 and 2512 chip sizes. Driven by the progressive miniaturization trend influencing the market, towards space saving, as well as the requirement for more reliable and thermally conductive products.

The 3503 & 3504 series offer TCR at  $\pm 50\text{ppm}/^\circ\text{C}$  and resistance tolerance at  $\pm 1\%$  as standard. Resistance values are within the IEC 63 E96 and E24 value grids. They also have accurate and uniform physical dimensions to facilitate automatic placement methods and the resistance values are within the IEC 63 E96 and E24 value grids.

### APPLICATIONS

- Automation controls
- Braking systems
- Power supplies
- Power switching

### TARGET MARKETS

- Global Channel Distribution
- EMS
- OEMs

### KEY BENEFITS

- Higher operating temperature capability which also enables high power dissipation capability for the component
- Leads to space saving for the customer on their PCB by being able to use fewer components to dissipate a higher power level
- Offers high precision considering the level of power linked to the products, leading to less variation in the resistance of the components given the temperature to which it is exposed

### LEARN MORE

- [Type 3503 Series data sheet](#)
- [Type 3504 Series data sheet](#)
- [CRGH Series](#)
- [CGS 3522 Series](#)
- [CGS 3540 Series](#)
- [CGS 3550 Series](#)