

• High Performance Film Resistors, Resistor Networks and Custom Resistive Devices •

New Type CD Low Resistance Precision Chip Resistors

Unique Pedestal Terminal Design offers Cooler Operation at High Power and Eliminates Connection Resistance Errors; Values as low as 0.010 Ohm ±1% Versions for Wire Bonding in Hybrid Circuits and Flip Chip Soldering in SMT Applications

The Caddock Type CD Low Resistance Precision Chip Resistors utilize the proven Caddock Micronox® resistance films and a unique pedestal terminal design to achieve the low resistance and precision tolerance in a chip resistor with a high power rating. The unique pedestal terminals in this design provide contact areas for circuit connection that are ultra low resistance thereby maintaining the precision 0.010 Ohm \pm 1% at the point of customer Kelvin connection to the resistor chip. The copper core of the pedestal terminal also provides heat spreading which enhances the high power capability of this chip resistor design allowing these Caddock 2520 and 2015 sized chips to operate cooler.

- Resistances as low as 0.010 Ohm $\pm 1\%$
- WB Version for Wire Bonding in Hybrid Applications with unique Pedestal Terminals to receive heavy Aluminum Wire Bonds
- Power Ratings for WB versions up to 20 Watts based on maintaining 25°C on the chip mounting surface
- FC Version for Flip Chip Mounting in SMT Applications
- Power Ratings for FC versions up to 1.5 Watts at 70°C ambient
- Non-Inductive Design



Application Areas

- Current Sense in Motor Controller Modules
- Current Sense in Smart IGBT's
- Current Sensing in other High Power Hybrid Circuits
- Current Sensing in Switch Mode Power Supply Outputs
- Flip Chip Version for Current Sensing in Conventional Solder Reflow SMT Assemblies

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