0402DR Series
HIGH POWER HIGH FREQUENCY CHIP RESISTORS

The 0402DR series of resistors offers excellent power handling capabilities and frequency response to 30GHz. The superior thermal properties of CVD diamond (high conductivity and low expansion) makes these resistors ideal for pulsed power applications. The mechanical and electrical characteristics of these chips provide a robust solution for many aerospace and military applications while its standardized production process keep the cost competitive for commercial use.

Features:
- High power
- Low capacitance
- Total thin film
- Excellent pulsed power handling
- RoHS compliant

Specifications:
- Resistance: 50 and 100 Ohms, +/-5%
- Frequency: DC – 30 GHz
- Power: 20 Watts
- Capacitance: 0.1 pF Max
- Operating temperature: -55 °C to 150 °C
- CVD diamond substrate
- Solderable or wire bondable terminals

Mechanical Outline

Dimensions are in inches [mm]

(631) 425-0938  www.passiveplus.com  sales@passiveplus.com
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The terminals of the 0402DR series can be used for soldered or wire bonding applications. The recommended attachment to heat sink is by soldering. Some de-rating needs to be applied when using epoxy as method of attachment, this de-rating depends on the thermal properties of the epoxy and technique applied.

These resistors are RoHS compliant and can be offered in wafer pack or tape and reel.

Power Rating

![Power Rating Graph]

Ordering Information

0402 DR - 50 - 5

Size: 0402: 0.045”x0.025”
0603: 0.060”x0.030”
Substrate: D: CVD Diamond
Style
Resistance
Tolerance

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