Features
- RoHS compliant* versions available (see How to Order “Termination” option)
- Compatible with automatic insertion equipment
- Superior package integrity
- Now available with improved tolerance to ±0.5 %

For information on specific applications, download Bourns’ application notes:
- DRAM Applications
- Dual Terminator Resistor Networks
- R/2R Ladder Networks
- SCSI Applications

4100R Series - Thick Film Molded DIPs

Product Characteristics
Resistance Range
10 ohms to 10 megohms
Maximum Operating Voltage
100 V
Temperature Coefficient of Resistance
50 Ω to 2.2 MΩ ±250 ppm/°C
above 2.2 MΩ ±250 ppm/°C
TCR Tracking
50 ppm/°C maximum; equal values
Resistor Tolerance
See circuits
Operating Temperature
-55 °C to +125 °C
Insulation Resistance
10,000 megohms minimum
Dielectric Withstanding Voltage
200 VRMS
Lead Solderability
Meet requirements of MIL-STD-202 Method 208

Environmental Characteristics
TESTS PER MIL-STD-202...... 4R MAX.
Short Time Overload
±1.00 %
Load Life
±1.00 %
Moisture Resistance
±0.50 %
Resistance to Soldering Heat
±0.25 %
Terminal Strength
±0.25 %
Thermal Shock
±0.25 %

Physical Characteristics
Flammability
Conforms to UL94V-0
Lead Frame Material
Copper, solder coated
Body Material
Novolac epoxy

How To Order
41 14 R - 1 - 152

For Standard Values Used in Capacitors, Inductors, and Resistors, click here.

Governing dimensions are in metric. Dimensions in parentheses are inches and are approximate.

*R terminal centerline to centerline measurements made at point of emergence of the lead from the body.
4100R Series - Thick Film Molded DIPs

Isolated Resistors (1 Circuit)
Model 4108R-1-RC (4 Isolated Resistors)
Model 4114R-1-RC (7 Isolated Resistors)
Model 4116R-1-RC (8 Isolated Resistors)
Model 4118R-1-RC (9 Isolated Resistors)
Model 4120R-1-RC (10 Isolated Resistors)

Bussed Resistors (2 Circuit)
Model 4108R-2-RC (7 Resistors, Pin 8 Common)
Model 4114R-2-RC (13 Resistors, Pin 14 Common)
Model 4116R-2-RC (15 Resistors, Pin 16 Common)
Model 4118R-2-RC (17 Resistors, Pin 18 Common)
Model 4120R-2-RC (19 Resistors, Pin 20 Common)

Dual Resistors (3 Circuit)
Model 4108R-3-R1/R2
Model 4114R-3-R1/R2
Model 4116R-3-R1/R2 (shown)
Model 4118R-3-R1/R2
Model 4120R-3-R1/R2

Resistance Tolerance
10 ohms to 49 ohms...................±1 ohm
50 ohms to 5 megohms...............±2 %*
Above 5 megohms.....................±5 %

Power Rating per Resistor
At 70 °C ..............................0.250 watt

Power Temperature Derating Curve

Popular Resistance Values (1, 2 Circuits)**

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* Add “F” after resistance code for ±1% tolerance available from 100 Ω through 1M Ω, or add “D” after resistance code for ±0.5% tolerance available from 100 Ω through 1M Ω.
Part number suffix examples: -103 = 10K Ω, ±2%; -103F = 10K Ω, ±1%; -103D = 10K Ω, ±0.5%

** Non-standard values available, within resistance range.

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.