

Features

- RoHS compliant* (see How to Order "Termination" option)
- Custom circuits available per factory

For information on thin film applications, download Bourns' Thin Film Application Note.

4100T - Thin Film Molded DIP

Product Characteristics

Resistance Range50 to 100K ohms
 Resistance Tolerance $\pm 0.1\%$, $\pm 0.5\%$, $\pm 1\%$
 Temperature Coefficient ± 100 ppm/ $^{\circ}\text{C}$, ± 50 ppm/ $^{\circ}\text{C}$, ± 25 ppm/ $^{\circ}\text{C}$
 Temperature Range -55°C to $+125^{\circ}\text{C}$
 Insulation Resistance10,000 megohms minimum
 TCR Tracking ± 5 ppm/ $^{\circ}\text{C}$
 Maximum Operating Voltage50 V

Environmental Characteristics

TESTS PER MIL-STD-202..... ΔR MAX.
 Thermal Shock 0.1 %
 Low Temperature Operation 0.25 %
 Short Time Overload 0.1 %
 Resistance to Soldering Heat 0.1 %
 Moisture Resistance 0.1 %
 Mechanical Shock 0.25 %
 Life 0.5 %
 High Temperature Storage 0.2 %
 Low Temperature Storage 0.1 %

Physical Characteristics

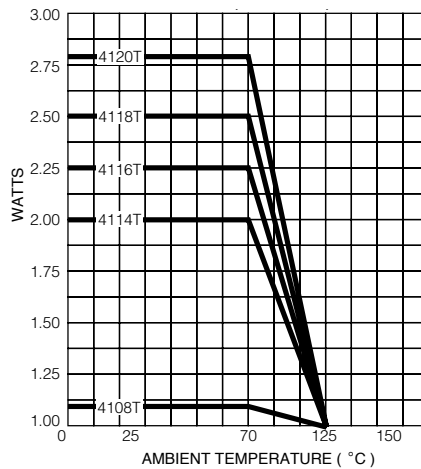
Lead Frame MaterialCopper, solder coated
 Body Material FlammabilityConforms to UL94V-0
 Body MaterialNovolac Epoxy

How To Order

41 16 T - 2 - 2222 F A B

Model (41 = Molded Dip)
 Number of Pins
 Physical Config.
 •T = Thin Film
 Electrical Configuration
 •2 = Bussed •1 = Isolated
 Resistance Code
 •First 3 digits are significant
 •Fourth digit represents the number of zeros to follow.
 Absolute Tolerance Code
 •B = $\pm 0.1\%$ •F = $\pm 1\%$
 •D = $\pm 0.5\%$
 Temperature Coefficient Code
 •A = ± 100 ppm/ $^{\circ}\text{C}$ •C = ± 25 ppm/ $^{\circ}\text{C}$
 •B = ± 50 ppm/ $^{\circ}\text{C}$
 Ratio Tolerance (Optional)
 •A = $\pm 0.05\%$ to R1 •B = $\pm 0.1\%$ to R1
 •D = $\pm 0.5\%$ to R1
 Terminations
 •L = Tin-plated (RoHS compliant version)
 •Blank = Tin/Lead-plated
 Consult factory for other available options.

Package Power Temp. Derating Curve

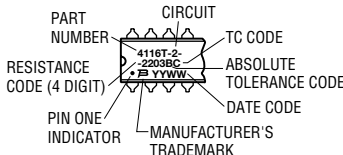


Package Power Ratings at 70 °C

4108T1.09 watts
 4114T2.00 watts
 4116T2.25 watts
 4118T2.50 watts
 4120T2.80 watts

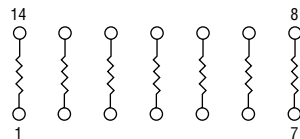
Typical Part Marking

Represents total content. Layout may vary.



Isolated Resistors (1 Circuit)

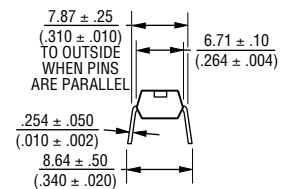
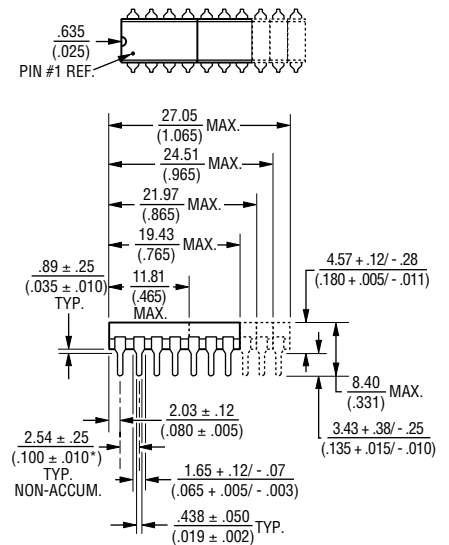
Available in 8, 14, 16, 18, and 20 Pin



These models incorporate 4, 7, 8, 9, or 10 thin-film resistors of equal value, each connected between a separate pin.

Power Rating per Resistor0.2 watt
 Resistance Range50 to 100K ohms

Product Dimensions

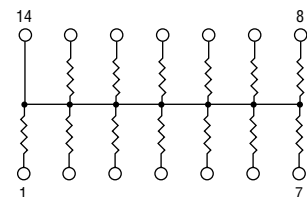


Governing dimensions are in metric. Dimensions in parentheses are inches and are approximate.

*Terminal centerline to centerline measurements made at point of emergence of the lead from the body.

Bussed Resistors (2 Circuit)

Available in 8, 14, 16, 18, and 20 Pin



These models incorporate 7, 13, 15, 17, or 19 thin-film resistors of equal value, each connected by a common pin.

Power Rating per Resistor0.12 watt
 Resistance Range50 to 50K ohms

*RoHS Directive 2002/95/EC Jan 27 2003 including Annex Specifications are subject to change without notice. Customers should verify actual device performance in their specific applications.