

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 Resistance
.....10,000 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 Material
.....Copper, solder coated
Body Material Flammability
.....Conforms to UL94V-0
Body MaterialNovolac Epoxy

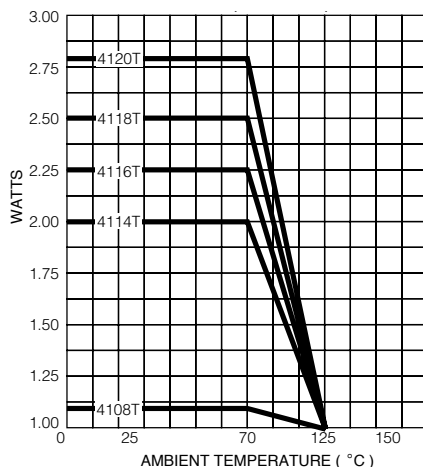
How To Order

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.

*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.

Package Power Temp. Derating Curve

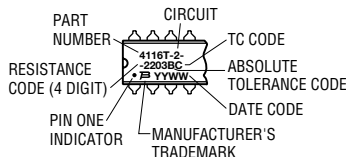


Package Power Ratings at 70 °C

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

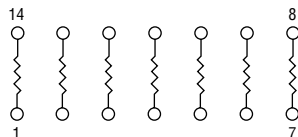
Typical Part Marking

Represents total content. Layout may vary.



Isolated Resistors (1 Circuit)

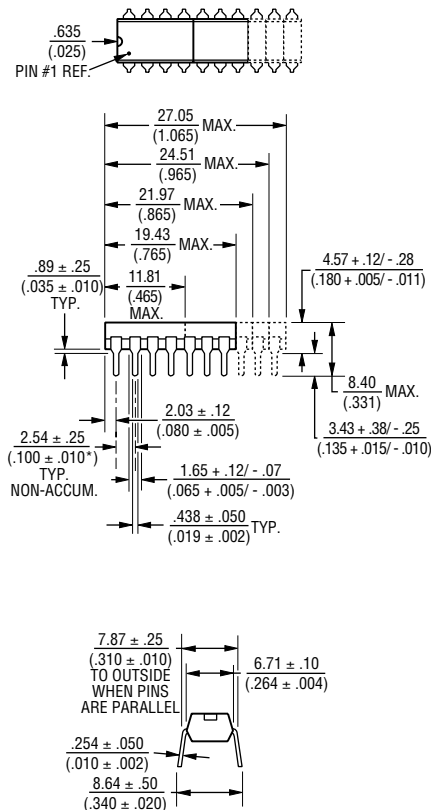
Available in 8, 14, 16, 18, and 20 Pin



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

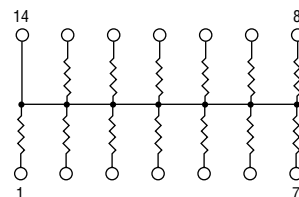


Governing dimensions are in metric. Dimensions in parentheses are inches and are approximate.

*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

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