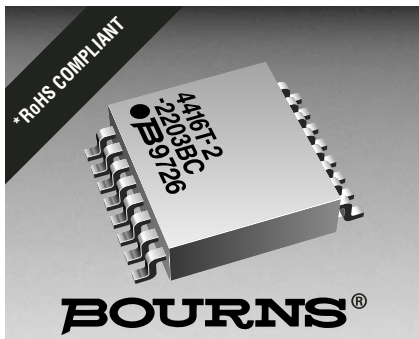




Features

- Lead free
- RoHS compliant*
- Increased lead density
- Custom circuits available per factory

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

4400T - Thin Film Wide Body Gull Wing

Product Characteristics

Resistance Range10 to 150K 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

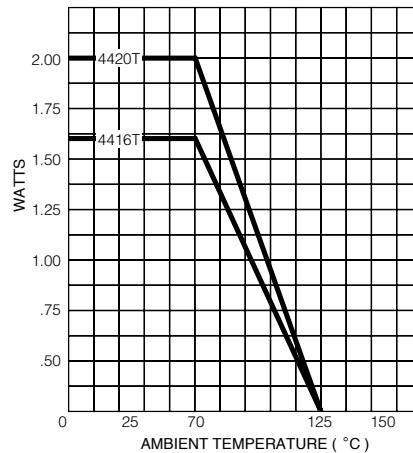
Environmental Characteristics

TESTS PER MIL-STD-202 ΔR MAX
Thermal Shock 0.1 %
Short Time Overload 0.1 %
Resistance to Soldering Heat 0.1 %
Moisture Resistance 0.5 %
Life 0.5 %

Physical Characteristics

Lead Frame Material
.....Copper, solder coated
Body Material Flammability
.....Conforms to UL94V-0
Body MaterialNovolac Epoxy

Package Power Temp. Derating Curve

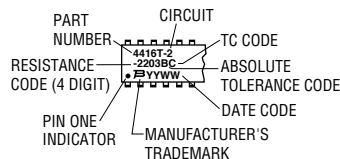


Package Power Ratings at 70 $^{\circ}\text{C}$

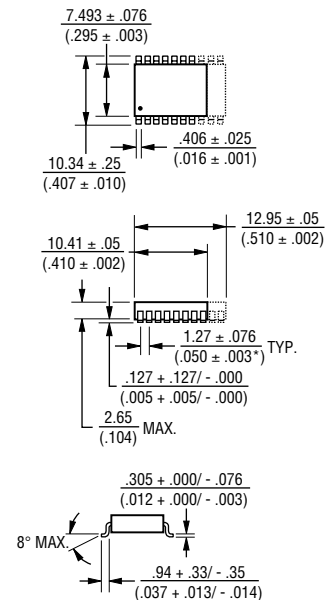
4416T1.60 watts
4420T2.00 watts

Typical Part Marking

Represents total content. Layout may vary.



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.

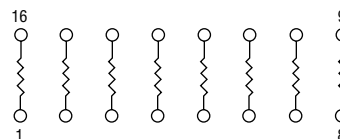
How To Order

44 16 T - 2 - 2222 F A B L

Model _____
(44 = SOL Wide Body Gull Wing)
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 • D = $\pm 0.5\%$ to R1
• B = $\pm 0.1\%$ to R1
Termination _____
L = Tin-plated (lead free)

Isolated Resistors (1 Circuit)

Available in 16 and 20 Pin

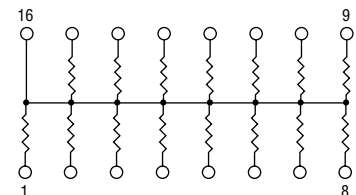


These models incorporate 8 or 10 thin-film resistors of equal value, each connected between a separate pin.

Power Rating per Resistor0.15 watt
Resistance Range10 to 150K ohms

Bussed Resistors (2 Circuit)

Available in 16 and 20 Pin



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

Power Rating per Resistor0.10 watt
Resistance Range10 to 75K ohms

Consult factory for other available options.

REV. 01/05
*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.