

Features

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

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

4800T - Thin Film Medium Body Gull Wing

Product Characteristics

Resistance Range 10 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/ $^{\circ}\text{C}$
TCR Tracking ± 5 ppm/ $^{\circ}\text{C}$
Temperature Range -55°C to $+125^{\circ}\text{C}$
Maximum Operating Voltage 50 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 0.1 %
Life 0.5 %

Physical Characteristics

Lead Frame Material Copper, solder coated
Body Material Flammability Conforms to UL94V-0
Body Material Thermoplastic

How To Order

48 16 T - 2 - 2222 F A B

Model _____
(48 = SOM Medium Body Gull Wing)
Number of Pins _____
Physical Config. _____
• T = Thin Film
Electrical Configuration & Packaging _____
• 1 = Isolated, Tape & Reel
• 2 = Bussed, Tape & Reel
• T01 = Isolated, Tubes
• T02 = Bussed, Tubes
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
Terminations _____
• L = Tin-plated (RoHS compliant version)
• Blank = Tin/Lead-plated

Consult factory for other available options.

REV. 07/15

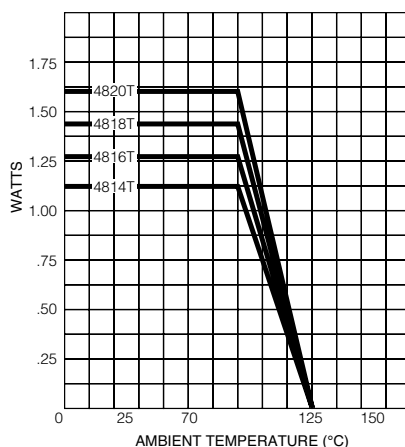
*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.

Package Power Temp. Derating Curve



Package Power Rating at 70 °C

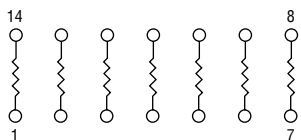
4420P 2.00 watts
4416P 1.60 watts

Package Power Rating at 70 °C

4814T 1.12 watts
4816T 1.28 watts
4818T 1.44 watts
4820T 1.60 watts

Isolated Resistors (1 Circuit)

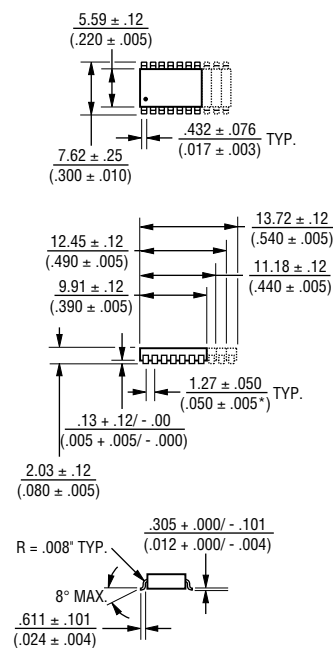
Available in 14, 16, 18, and 20 Pin



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

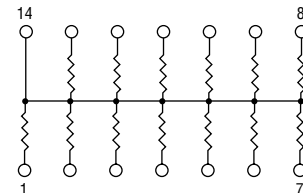
Power Rating per Resistor 0.10 watt
Resistance Range 10 to 100K ohms

Product Dimensions



Bussed Resistors (2 Circuit)

Available in 14, 16, 18, and 20 Pin



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

Power Rating per Resistor 0.08 watt
Resistance Range 10 to 50K ohms

Typical Part Marking

Represents total content. Layout may vary.

