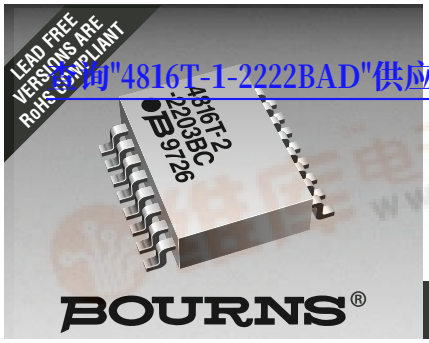


Features

- Lead free versions available (see How to Order "Termination" option)
- RoHS compliant (lead free version)*
- 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
.....±0.1 %, ±0.5 %, ±1 %
Temperature Coefficient
.....±100 ppm/°C, ±50 ppm/°C, ±25 ppm/°C
TCR Tracking .....±5 ppm/°C
Temperature Range
.....-55 °C to +125 °C

Maximum Operating Voltage.....50 V

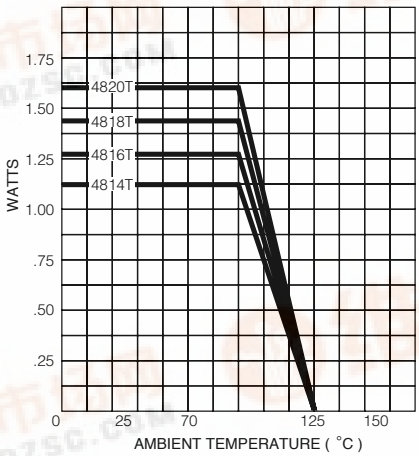
Environmental Characteristics

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

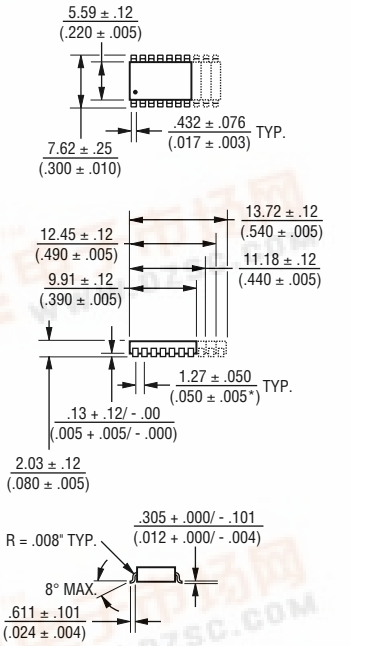
Package Power Temp. Derating Curve



Package Power Ratings at 70 °C

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

Product Dimensions



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

How To Order

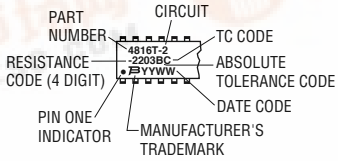
48 16 T - 2 - 2222 F A B __

Model
(48 = SOM Medium Body Gull Wing)
Number of Pins
Physical Config.
•T = Thin Film
Electrical Configuration
•2 = Bussed
•1 = Isolated
Resistance Code
•First 3 digits are significant
•Fourth digit represents the number of zeros to follow.
Absolute Tolerance Code
•B = ±0.1% •F = ±1%
•D = ±0.5%
Temperature Coefficient Code
•A = ±100ppm/°C •C = ±25ppm/°C
•B = ±50ppm/°C
Ratio Tolerance (Optional)
•A = ±0.05% to R1 •D = ±0.5% to R1
•B = ±0.1% to R1
Terminations
• L = Tin-plated (lead free)
• Blank = Tin/Lead-plated

Consult factory for other available options.

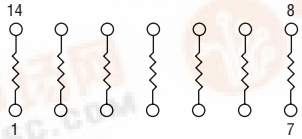
Typical Part Marking

Represents total content. Layout may vary.



Isolated Resistors (1 Circuit)

Available in 14, 16, 18, and 20 Pin

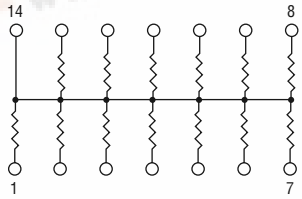


These models incorporate 7, 8, 9, or 10 thin-film resistors of equal value, each connected between a separate pin.

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

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

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.