

## 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 ..... ±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

### How To Order

**48 16 T - 2 - 2222 F A B**

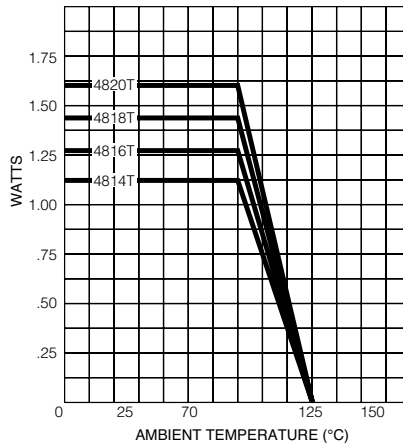
Model (48 = SOM Medium Body Gull Wing)  
 Number of Pins  
 Physical Config. (T = Thin Film)  
 Electrical Configuration & Packaging  
 • 1 = Isolated, Tape & Reel  
 • 2 = Bussed, Tape & Reel  
 • T01 = Isolated, Tubes  
 • T02 = Bussed, Tubes  
 Resistance Code  
 • First 3 digits are significant  
 • Fourth digit represents the number of zeros to follow.  
 Absolute Tolerance Code  
 • B = ±0.1 % • F = ±1 %  
 • D = ±0.5 %  
 Temperature Coefficient Code  
 • A = ±100 ppm/°C • C = ±25 ppm/°C  
 • B = ±50 ppm/°C  
 Ratio Tolerance (Optional)  
 • A = ±0.05 % to R1 • D = ±0.5 % to R1  
 • B = ±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

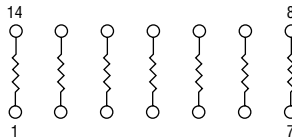
4420P ..... 2.00 watts  
 4416P ..... 1.60 watts

### 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)

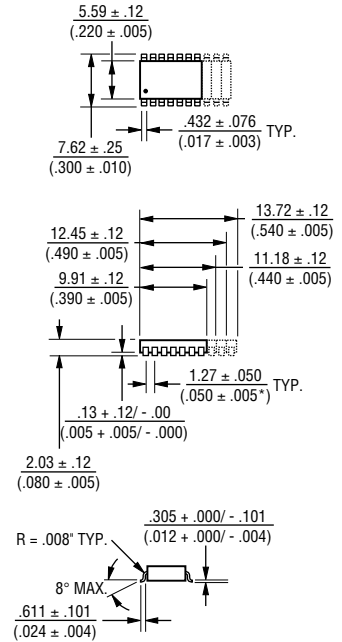
Available in 14, 16, 18, and 20 Pin



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

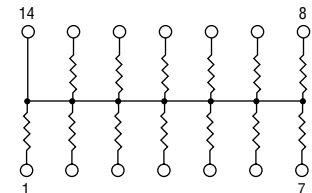
### Product Dimensions



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

### 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.

