**BOURNS®**

## 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
•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 (RoHS compliant version)
• Blank = Tin/Lead-plated

Consult factory for other available options.
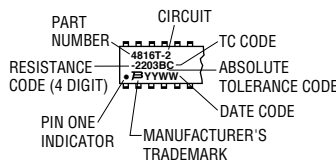
## Package Power Temp. Derating Curve
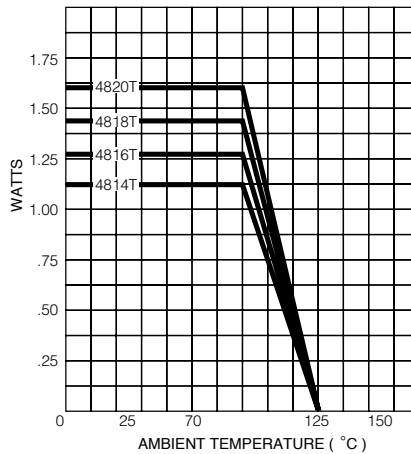


## Package Power Ratings at 70 °C

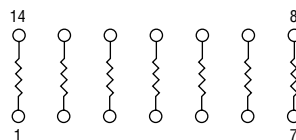| | |
|---|---|
| 4814T | 1.12 watts |
| 4816T | 1.28 watts |
| 4818T | 1.44 watts |
| 4820T | 1.60 watts |

## Typical Part Marking

Represents total content. Layout may vary.
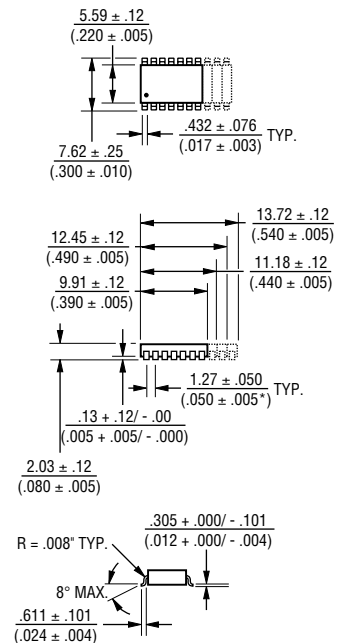


## Isolated Resistors (1 Circuit)

### 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
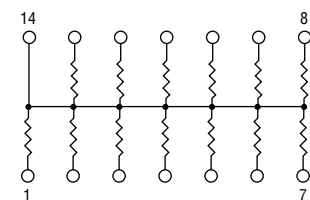Resistance Range .......10 to 100K ohms

## 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