

## Features

- 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 Range .....10 to 150K ohms  
 Resistance Tolerance  
 .....±0.1 %, ±0.5 %, ±1 %  
 Temperature Coefficient  
 .....±100 ppm/°C, ±50 ppm/°C,  
 ±25 ppm/°C  
 Temperature Range  
 .....-55 °C to +125 °C  
 Insulation Resistance  
 .....10,000 megohms minimum  
 TCR Tracking .....±5 ppm/°C  
 Maximum Operating Voltage .....50 V

### Environmental Characteristics

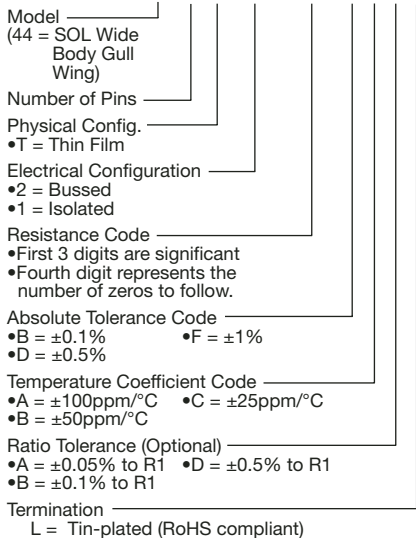
TESTS PER MIL-STD-202 .....ΔR MAX  
 Thermal Shock ..... 0.1 %  
 Short Time Overload ..... 0.1 %  
 Resistance to Soldering Heat ..... 0.1 %  
 Moisture Resistance ..... 0.5 %  
 Life ..... 0.5 %

### Physical Characteristics

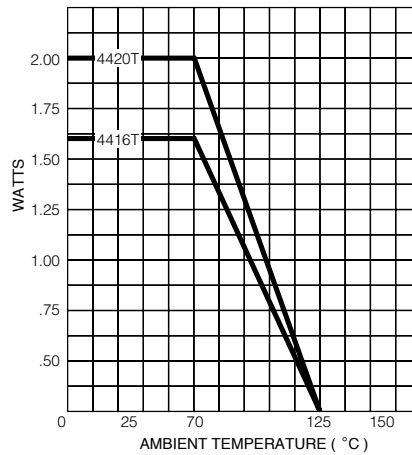
Lead Frame Material  
 .....Copper, solder coated  
 Body Material Flammability  
 .....Conforms to UL94V-0  
 Body Material .....Novolac Epoxy

### How To Order

**44 16 T - 2 - 2222 F A B L**



### Package Power Temp. Derating Curve

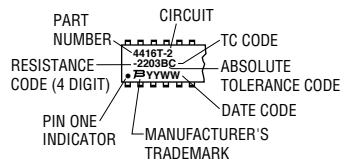


### Package Power Ratings at 70 °C

4416T .....1.60 watts  
 4420T .....2.00 watts

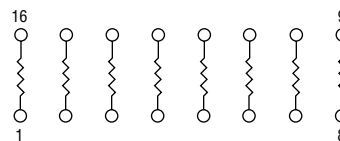
### Typical Part Marking

Represents total content. Layout may vary.



### Isolated Resistors (1 Circuit)

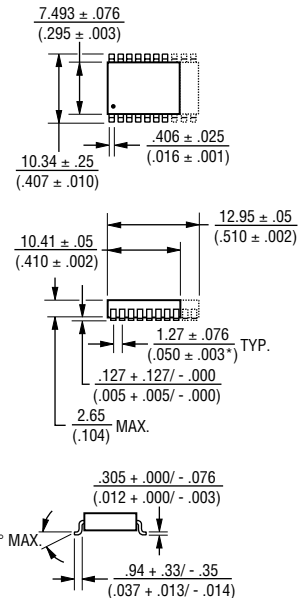
Available in 16 and 20 Pin



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

Power Rating per Resistor .....0.15 watt  
 Resistance Range .....10 to 150K ohms

### Product Dimensions

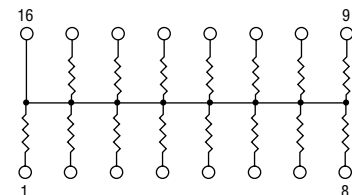


Governing dimensions are in metric. Dimensions in parentheses are inches and are approximate.

\*Terminal centerline to centerline measurements made at point of emergence of the lead from the body.

### 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 Resistor .....0.10 watt  
 Resistance Range .....10 to 75K ohms

Consult factory for other available options.

REV. 09/07  
 \*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.