

## Features

- Lead free versions available (see How to Order "Termination" option)
- RoHS compliant (lead free version)\*
- Low profile provides compatibility with DIPs
- Also available in medium profile (4300S - .250 ") and high profile (4300K - .350 ")

- Marking on contrasting background
- Custom circuits available per factory

## 4300T, S, K Series - Thin Film Molded SIP

### Product Characteristics

Resistance Range  
 Bussed .....49.9 to 100K ohms  
 Isolated .....20 to 200K ohms  
 Series.....20 to 100K 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

Thermal Shock and  
 Power Conditioning ..... 0.1 %  
 Short Time Overload ..... 0.1 %  
 Terminal Strength ..... 0.25 %  
 Resistance to Soldering Heat ..... 0.1 %  
 Moisture Resistance ..... 0.1 %  
 Life ..... 0.50 %

### Physical Characteristics

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

### How To Order

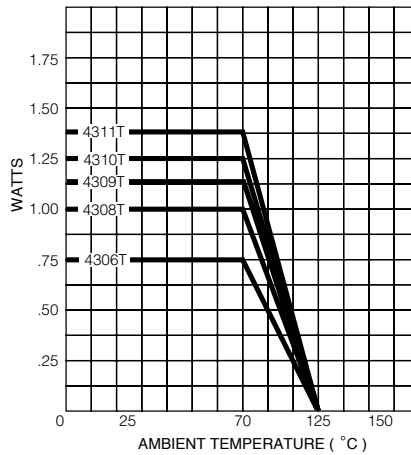
**43 11 T - 101 - 2222 F A B**

Model \_\_\_\_\_  
 (43 = Molded SIP)  
 Number of Pins \_\_\_\_\_  
 Physical Config.  
 • T = Low Profile Thin Film  
 • S = Med. Profile Thin Film  
 • K = High Profile Thin Film  
 Electrical Configuration \_\_\_\_\_  
 • 101 = Bussed  
 • 102 = Isolated  
 • 106 = Series  
 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.

### Package Power Temp. Derating Curve

(Low Profile, 4300T)

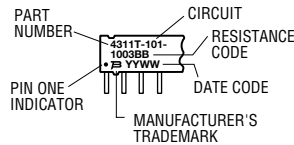


### Package Power Ratings at 70°C

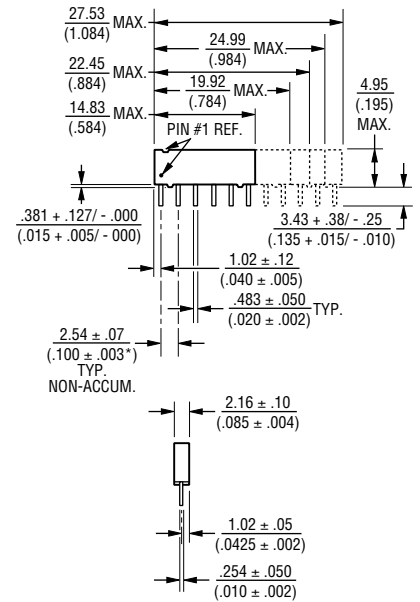
	T	S	K
4304	0.60	0.80	0.80
4306	0.75	0.90	1.20
4308	1.00	1.20	1.60
4309	1.13		
4310	1.25	1.50	2.00
4311	1.38		

### Typical Part Marking

Represents total content. Layout may vary.



### 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.

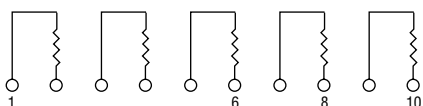
For information on thin film applications, download Bourns' Thin Film Application Note.

## 4300T, S, K Series - Thin Film Molded SIP

**BOURNS®**

### Isolated Resistors (102 Circuit)

Available in 6, 8, 10 Pin



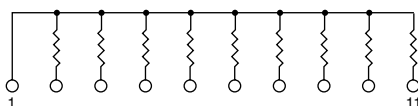
These models incorporate 3, 4, or 5 isolated thin-film resistors of equal value, each connected between a separate pin.

### Power Rating per Resistor

T .....0.18 watt  
 S .....0.20 watt  
 K .....0.25 watt  
 Resistance Range... ..20 to 200K ohms

### Bussed Resistors (101 Circuit)

Available in 6, 8, 9, 10, 11 Pin



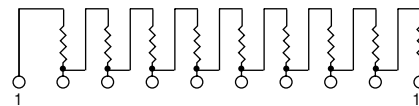
These models incorporate 5, 7, 8, 9, or 10 thin-film resistors of equal value, each connected between a separate pin.

### Power Rating per Resistor

T .....0.10 watt  
 S .....0.12 watt  
 K .....0.15 watt  
 Resistance Range...49.9 to 100K ohms

### Series Circuit (106 Circuit)

Available in 6, 8, 9, 10, 11 Pin



These models incorporate 5, 7, 8, 9, or 10 thin-film resistors of equal value, each connected in a series.

### Power Rating per Resistor

T .....0.10 watt  
 S .....0.12 watt  
 K .....0.15 watt  
 Resistance Range.....20 to 100K ohms