



## Features

- RoHS compliant\* (see How to Order "Termination" option)
- Custom circuits available per factory
- Low profile provides compatibility with DIPs
- Also available in medium profile (4300S - .250") and high profile (4300K - .350")
- Marking on contrasting background

## 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

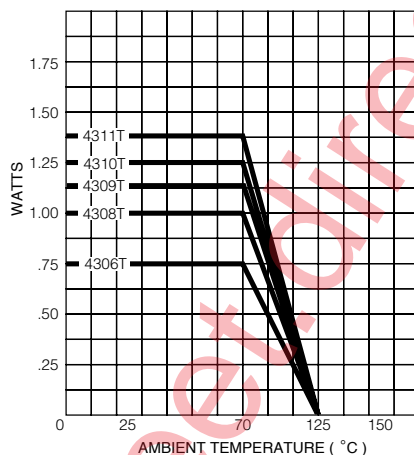
**43 11 T - 101 - 2222 F A B**

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

Consult factory for other available options.

### Package Power Temp. Derating Curve

(Low Profile, 4300T)

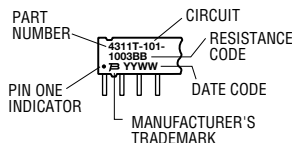


### Package Power Ratings at 70°C

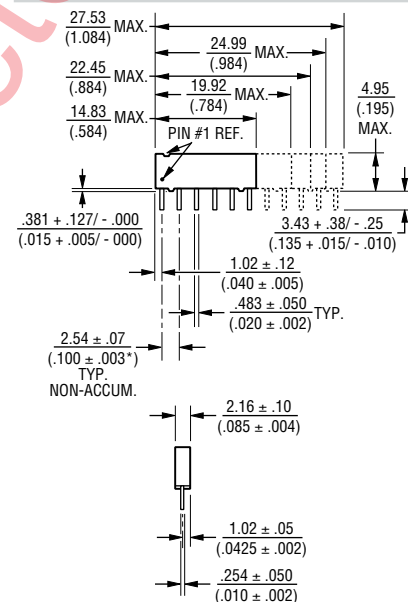
Model	T	S	K
4304	0.60	0.80	watts
4306	0.75	0.90	1.20 watts
4308	1.00	1.20	1.60 watts
4309	1.13		watts
4310	1.25	1.50	2.00 watts
4311	1.38		watts

### 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.

\*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.

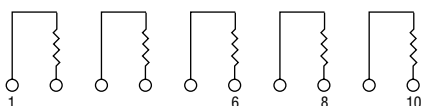
For information on thin film applications, download Bourns' Thin Film Application Note.

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

**BOURNS®**

### Isolated Resistors (102 Circuit)

Available in 6, 8, 10 Pin



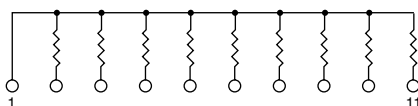
These models incorporate 3, 4, or 5 isolated thin-film resistors of equal value, each connected between a separate pin.

### 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



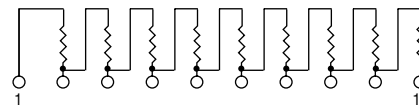
These models incorporate 5, 7, 8, 9, or 10 thin-film resistors of equal value, each connected between a separate pin.

### 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