



## 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

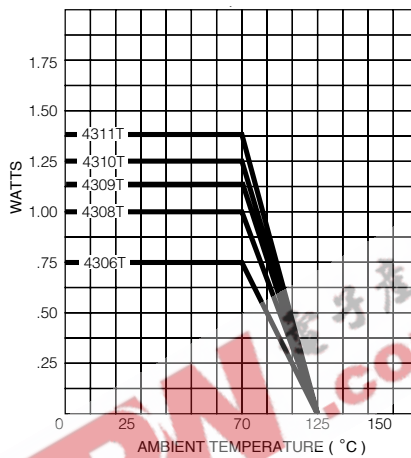
Ratio Tolerance (Optional)  
 • A = ±0.05% to R1      • D = ±0.5% to R1  
 • B = ±0.1% to R1

Terminations  
 • L = Tin-plated (lead free)  
 • Blank = Tin/Lead-plated

Consult factory for other available options.

### Package Power Temp. Derating Curve

(Low Profile, 4300T)

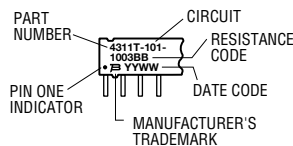


### Package Power Ratings at 70°C

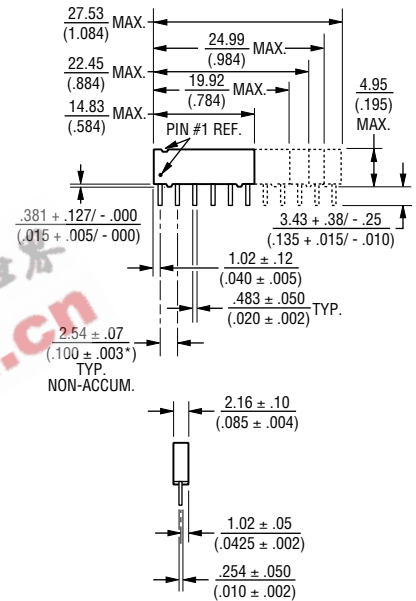
Model	T	S	K
4304	0.60	0.80	watts
4306	0.75	0.90	watts
4308	1.00	1.20	watts
4309	1.13		watts
4310	1.25	1.50	watts
4311	1.38		watts

### Typical Part Marking

Represents total content. Layout may vary.



### Product Dimensions



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

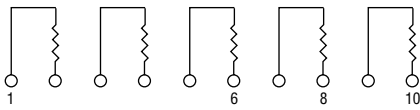
\*Terminal centerline to centerline measurements made at point of emergence of the lead from the body.

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

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**BOURNS®**

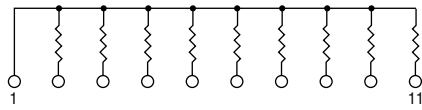
### Isolated Resistors (102 Circuit) Available in 6, 8, 10 Pin



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

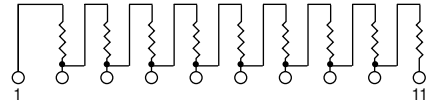
### Bussed Resistors (101 Circuit) Available in 6, 8, 9, 10, 11 Pin



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