



## 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

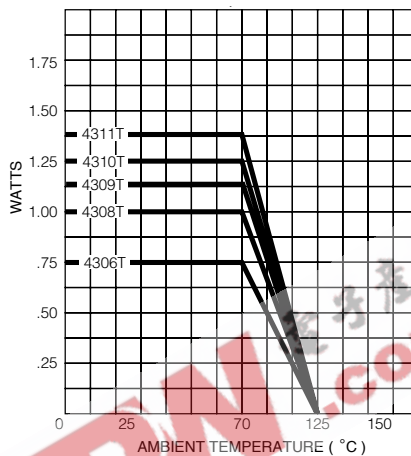
43 11 T - 101 - 2222 F A B

|  |                   |
|--|-------------------|
| 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)

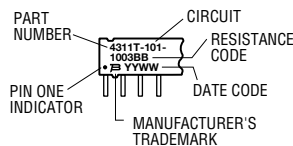


### Package Power Ratings at 70°C

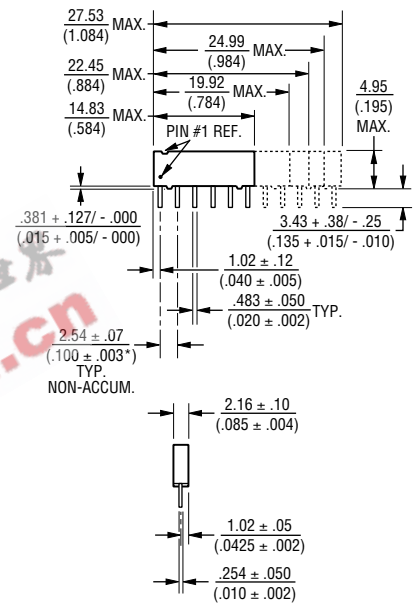
| Model | T    | S    | K     |
|-------|------|------|-------|
| 4304  | 0.60 | 0.80 | watts |
| 4306  | 0.75 | 0.90 | watts |
| 4308  | 1.00 | 1.20 | watts |
| 4309  | 1.13 |      | watts |
| 4310  | 1.25 | 1.50 | watts |
| 4311  | 1.38 |      | watts |

### Typical Part Marking

Represents total content. Layout may vary.



### Product Dimensions



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

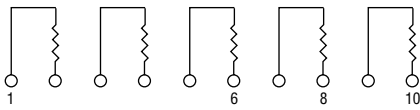
\*Terminal centerline to centerline measurements made at point of emergence of the lead from the body.

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

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

**BOURNS®**

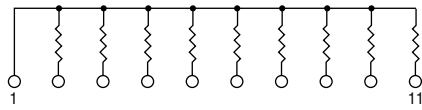
### Isolated Resistors (102 Circuit) Available in 6, 8, 10 Pin



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 |

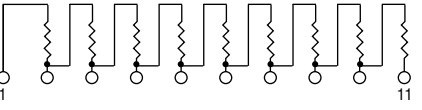
### Bussed Resistors (101 Circuit) Available in 6, 8, 9, 10, 11 Pin



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 |