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\*RoHS Directive 2002/95/EC Jan 27 2003 including Annex  
Specifications are subject to change without notice.  
Verify actual device performance in their specific applications.

For information on specific applications,  
download Bourns' application notes:

[DRAM Applications](#)

[Dual Terminator Resistor Networks](#)

[R/ZR Ladder Networks](#)

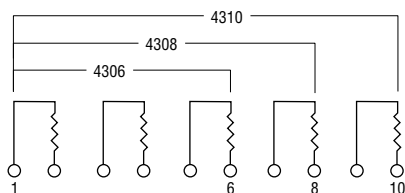
[SCSI Applications](#)

## 4300R Series - Thick Film Molded SIPs

**BOURNS®**

### Isolated Resistors (102 Circuit)

Model 4306R-102-RC (6 Pin)  
Model 4308R-102-RC (8 Pin)  
Model 4310R-102-RC (10 Pin)



These models incorporate 3, 4 or 5 isolated thick-film resistors of equal value, each connected between two pins.

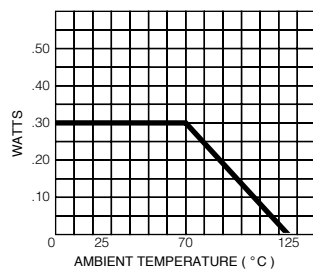
#### Resistance Tolerance

10 ohms to 49 ohms .....±1 ohm  
50 ohms to 5 megohms.....±2 %\*  
Above 5 megohms.....±5 %

#### Power Rating per Resistor

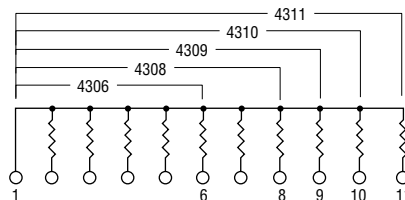
At 70 °C .....0.30 watt

#### Power Temperature Derating Curve



### Bussed Resistors (101 Circuit)

Model 4306R-101-RC (6 Pin)  
Model 4308R-101-RC (8 Pin)  
Model 4309R-101-RC (9 Pin)  
Model 4310R-101-RC (10 Pin)  
Model 4311R-101-RC (11 Pin)



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

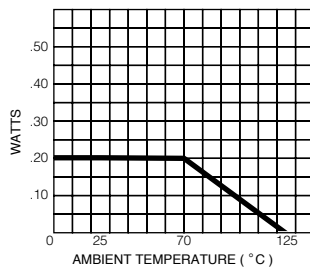
#### Resistance Tolerance

10 ohms to 49 ohms .....±1 ohm  
50 ohms to 5 megohms.....±2 %\*  
Above 5 megohms.....±5 %

#### Power Rating per Resistor

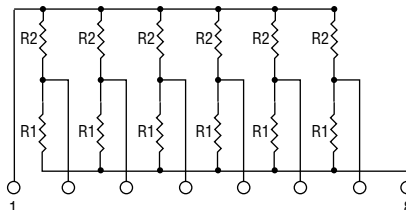
At 70 °C .....0.20 watt

#### Power Temperature Derating Curve



### Dual Terminator (104 Circuit)

Model 4306R-104-R1/R2  
Model 4308R-104-R1/R2 (shown)  
Model 4309R-104-R1/R2  
Model 4310R-104-R1/R2  
Model 4311R-104-R1/R2



4308R-104 (shown above) is an 8-pin configuration and terminates 6 lines. Pins 1 and 8 are common for ground and power, respectively. Twelve thick-film resistors are paired in series between the common lines (pins 1 and 8).

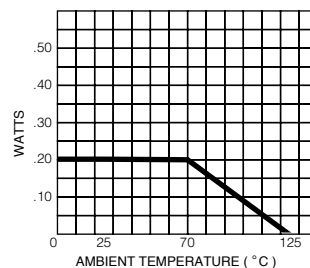
#### Resistance Tolerance

Below 100 ohms.....±2 ohms  
100 ohms to 5 megohms.....±2 %\*  
Above 5 megohms.....±5 %

#### Power Rating per Resistor

At 70 °C .....0.20 watt

#### Power Temperature Derating Curve



### Popular Resistance Values (101, 102 Circuits)\*\*

| Ohms | Code | Ohms  | Code | Ohms   | Code | Ohms    | Code | Ohms      | Code |
|------|------|-------|------|--------|------|---------|------|-----------|------|
| 10   | 100  | 180   | 181  | 1,800  | 182  | 15,000  | 153  | 120,000   | 124  |
| 22   | 220  | 220   | 221  | 2,000  | 202  | 18,000  | 183  | 150,000   | 154  |
| 27   | 270  | 270   | 271  | 2,200  | 222  | 20,000  | 203  | 180,000   | 184  |
| 33   | 330  | 330   | 331  | 2,700  | 272  | 22,000  | 223  | 220,000   | 224  |
| 39   | 390  | 390   | 391  | 3,300  | 332  | 27,000  | 273  | 270,000   | 274  |
| 47   | 470  | 470   | 471  | 3,900  | 392  | 33,000  | 333  | 330,000   | 334  |
| 56   | 560  | 560   | 561  | 4,700  | 472  | 39,000  | 393  | 390,000   | 394  |
| 68   | 680  | 680   | 681  | 5,600  | 562  | 47,000  | 473  | 470,000   | 474  |
| 82   | 820  | 820   | 821  | 6,800  | 682  | 56,000  | 563  | 560,000   | 564  |
| 100  | 101  | 1,000 | 102  | 8,200  | 822  | 68,000  | 683  | 680,000   | 684  |
| 120  | 121  | 1,200 | 122  | 10,000 | 103  | 82,000  | 823  | 820,000   | 824  |
| 150  | 151  | 1,500 | 152  | 12,000 | 123  | 100,000 | 104  | 1,000,000 | 105  |

\* ADD "F" AFTER RESISTANCE CODE FOR ±1 % TOLERANCE AVAILABLE FROM 100 OHMS THROUGH 1 MEGOHM, OR ADD "D" AFTER RESISTANCE CODE FOR ±0.5 % TOLERANCE AVAILABLE FROM 100 OHMS THROUGH 1 MEGOHM.

PART NUMBER SUFFIX EXAMPLES: -103 = 10K OHMS, ±2 %; -103F = 10K OHMS, ±1 %; -103D = 10K OHMS, ±0.5 %

\*\* NON-STANDARD VALUES AVAILABLE WITHIN RESISTANCE RANGE.

### Popular Resistance Values (104 Circuit)\*\*

| Resistance     |                |                |                |
|----------------|----------------|----------------|----------------|
| (Ohms)         |                | Code           |                |
| R <sub>1</sub> | R <sub>2</sub> | R <sub>1</sub> | R <sub>2</sub> |
| 160            | 240            | 161            | 241            |
| 180            | 390            | 181            | 391            |
| 220            | 270            | 221            | 271            |
| 220            | 330            | 221            | 331            |
| 330            | 390            | 331            | 391            |
| 330            | 470            | 331            | 471            |
| 3,000          | 6,200          | 302            | 622            |