

Product Characteristics

Resistance Range

- Temperature Coefficient of Resistance 50 Ω to 2.2 megohms.....±100 ppm/°C below 50 Ω......±250 ppm/°C
- above 2.2 megohms...... ±250 ppm/°C

Insulation Resistance

Environmental Characteristics

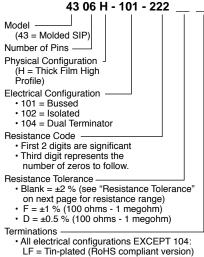
| . ΔR MAX. |
|-----------|
| ±0.25 % |
| ±1.00 % |
| ±0.50 % |
| |
| ±0.25 % |
| ±0.25 % |
| ±0.25 % |
| |

Physical Characteristics

Flammability Conforms to UL94V-0 Lead Frame Material

.....Copper, solder coated Body Material.....Novolac epoxy

How To Order



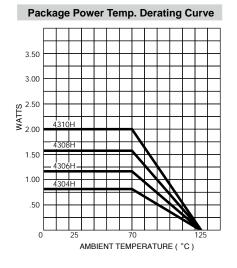
- LF = Iin-plated (RoHS compliant version)
 ONLY electrical configuration 104:
- L = Tin-plated (RoHS compliant version) • Blank = Tin/Lead-plated

Consult factory for other available options.

Features

- RoHS compliant* versions available (see How to Order "Termination" option)
- High profile offers increased power handling
- Compatible with automatic insertion equipment
- Superior package integrity

4300H Series - Thick Film Molded SIPs

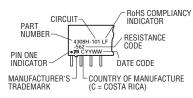


Package Power Rating at 70 °C

| 4304H | 0.80 watts |
|-------|------------|
| 4306H | 1.20 watts |
| 4308H | 1.60 watts |
| 4310H | 2.00 watts |

Typical Part Marking

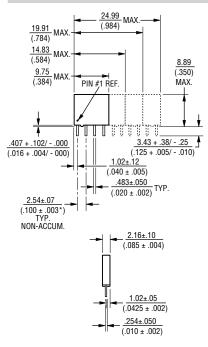
Represents total content. Layout may vary.



For Standard Values Used in Capacitors, Inductors, and Resistors, click here.

Now available with improved tolerance to ±0.5 %

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 2015/863, Mar 31, 2015 and Annex. Specifications are subject to change without notice. Users should verify actual device performance in their specific

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- DRAM Applications
- Dual Terminator Resistor Networks
- R/2R Ladder Networks
- SCSI Applications

4300H Series - Thick Film Molded SIPs

Bussed Resistors (101 Circuit)

Model 4304H-101-RC (4 Pin)

Model 4306H-101-RC (6 Pin)

Model 4308H-101-RC (8 Pin)

4306

1) and a separate pin.

WATTS

.30

20

Resistance Tolerance

Power Rating per Resistor

4304

Model 4310H-101-RC (10 Pin)

4308

These models incorporate 3, 5, 7, or 9

thick-film resistors of equal value, each

connected between a common bus (pin

10 ohms to 49 ohms±1 ohm

50 ohms to 5 megohms ±2 %* Above 5 megohms.....±5 %

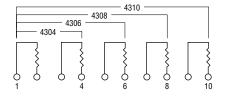
At 70 °C 0.30 watt

Power Temperature Derating Curve

AMBIENT TEMPERATURE (°C)

4310

Isolated Resistors (102 Circuit) Model 4304H-102-RC (4 Pin) Model 4306H-102-RC (6 Pin) Model 4308H-102-RC (8 Pin) Model 4310H-102-RC (10 Pin)



These models incorporate 2, 3, 4 or 5 isolated thick-film resistors of equal value, each connected between two pins.

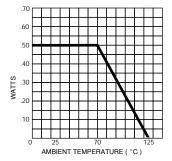
Resistance Tolerance

| 10 ohms to 49 ohms | ±1 ohm |
|----------------------|--------|
| 50 ohms to 5 megohms | ±2 %* |
| Above 5 megohms | ±5 % |

Power Rating per Resistor

At 70 °C 0.50 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 Ω through 1M $\Omega,$ or add "D" after resistance code for ±0.5 % tolerance available from 100 Ω through 1M $\Omega.$

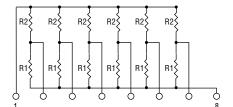
Part number suffix examples: -103 = 10K Ω, ±2 %; -103F = 10K Ω, ±1 %; -103D = 10K Ω, ±0.5 % ** Non-standard values available, within resistance range.

Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

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BOURNS

Dual Terminator (104 Circuit) Model 4304H-104-R1/R2 Model 4306H-104-R1/R2 Model 4308H-104-R1/R2 (shown) Model 4310H-104-R1/R2



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

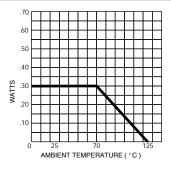
Resistance Tolerance

| Below 100 ohms | ±2 ohms |
|-----------------------|---------|
| 100 ohms to 5 megohms | ±2 %* |
| Above 5 megohms | ±5 % |

Power Rating per Resistor

| At 70 °C | 0.30 watt |
|----------|-----------|
| 10 0 | |

Power Temperature Derating Curve



Popular Resistance Values (104 Circuit)**

| Resistance | | | | | |
|----------------|----------------|----------------|----------------|--|--|
| Oh | ms | Co | de | | |
| R ₁ | R ₂ | R ₁ | R ₂ | | |
| 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 | | |

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