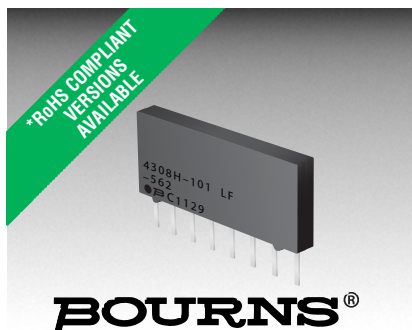




Features

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

- Now available with improved tolerance to $\pm 0.5\%$

4300H Series - Thick Film Molded SIPs

Product Characteristics

Resistance Range
 10 ohms to 10 megohms
 Maximum Operating Voltage 100 V
 Temperature Coefficient of Resistance
 50 Ω to 2.2 megohms ± 100 ppm/ $^{\circ}$ C
 below 50 Ω ± 250 ppm/ $^{\circ}$ C
 above 2.2 megohms ± 250 ppm/ $^{\circ}$ C
 TCR Tracking 50 ppm/ $^{\circ}$ C
 maximum; equal values
 Resistor Tolerance See circuits
 Operating Temperature
 -55 $^{\circ}$ C to +125 $^{\circ}$ C
 Insulation Resistance
 10,000 megohms minimum
 Dielectric Withstanding Voltage
 200 VRMS
 Lead Solderability Meet requirements
 of MIL-STD-202 Method 208

Environmental Characteristics

TESTS PER MIL-STD-202 ΔR MAX.
 Short Time Overload $\pm 0.25\%$
 Load Life $\pm 1.00\%$
 Moisture Resistance $\pm 0.50\%$
 Resistance to Soldering Heat
 $\pm 0.25\%$
 Terminal Strength $\pm 0.25\%$
 Thermal Shock $\pm 0.25\%$

Physical Characteristics

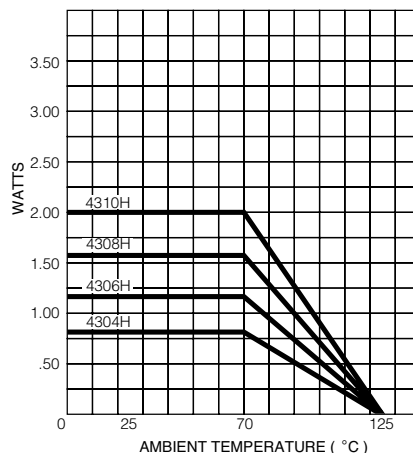
Flammability Conforms to UL94V-0
 Lead Frame Material
 Copper, solder coated
 Body Material Novolac epoxy

How To Order

43 06 H - 101 - 222

Model _____
 (43 = Molded SIP)
 Number of Pins _____
 Physical Configuration
 (H = Thick Film High Profile)
 Electrical Configuration _____
 • 101 = Bussed
 • 102 = Isolated
 • 104 = Dual Terminator
 Resistance Code _____
 • First 2 digits are significant
 • Third digit represents the number of zeros to follow.
 Resistance Tolerance _____
 • Blank = $\pm 2\%$ (see "Resistance Tolerance" on next page for resistance range)
 • F = $\pm 1\%$ (100 ohms - 1 megohm)
 • D = $\pm 0.5\%$ (100 ohms - 1 megohm)
 Terminations _____
 • All electrical configurations EXCEPT 104:
 LF = Tin-plated (RoHS compliant version)
 • ONLY electrical configuration 104:
 L = Tin-plated (RoHS compliant version)
 • Blank = Tin/Lead-plated
 Consult factory for other available options.

Package Power Temp. Derating Curve

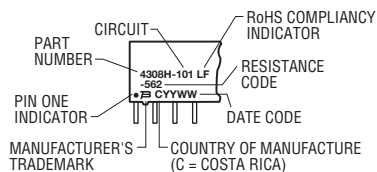


Package Power Rating at 70 °C

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

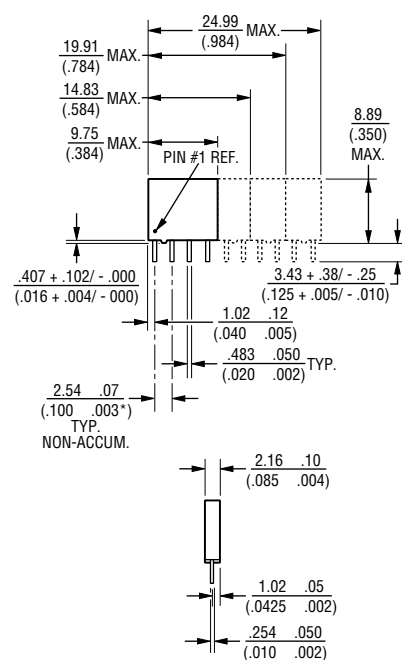
Typical Part Marking

Represents total content. Layout may vary.



For Standard Values Used in Capacitors, Inductors, and Resistors, [click here](#).

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 specific applications,
download Bourns' application notes:

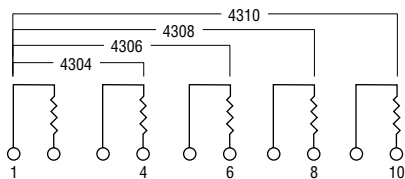
- [DRAM Applications](#)
- [Dual Terminator Resistor Networks](#)
- [R/2R Ladder Networks](#)
- [SCSI Applications](#)

4300H Series - Thick Film Molded SIPs

BOURNS®

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.

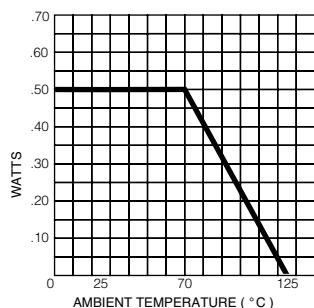
Resistance Tolerance

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

Power Rating per Resistor

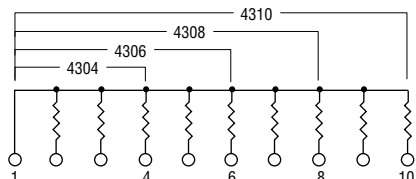
At 70 °C 0.50 watt

Power Temperature Derating Curve



Bussed Resistors (101 Circuit)

Model 4304H-101-RC (4 Pin)
Model 4306H-101-RC (6 Pin)
Model 4308H-101-RC (8 Pin)
Model 4310H-101-RC (10 Pin)



These models incorporate 3, 5, 7, or 9 thick-film resistors of equal value, each connected between a common bus (pin 1) and a separate pin.

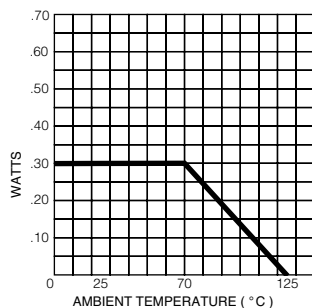
Resistance Tolerance

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

Power Rating per Resistor

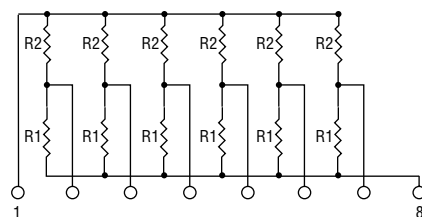
At 70 °C 0.30 watt

Power Temperature Derating Curve



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 thick-film resistors are paired in series between the common lines (pins 1 and 8).

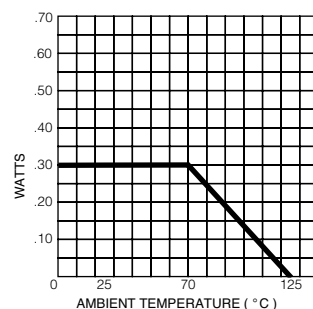
Resistance Tolerance

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

Power Rating per Resistor

At 70 °C 0.30 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 Ω , or add "D" after resistance code for ± 0.5 % tolerance available from 100 Ω through 1M Ω .

Part number suffix examples: -103 = 10K Ω , ± 2 %; -103F = 10K Ω , ± 1 %; -103D = 10K Ω , ± 0.5 %

** Non-standard values available, within resistance range.

Popular Resistance Values (104 Circuit)**

Resistance			
Ohms		Code	
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

REV. 05/12

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



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Электрон
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