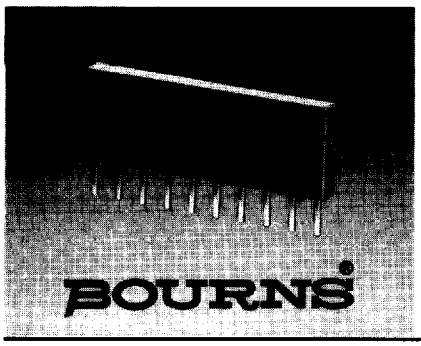


THICK FILM MOLDED SIPs, HIGH PROFILE 4, 6, 8, AND 10 PIN

- High profile offers increased power handling
- Compatible with automatic insertion equipment
- High temperature lead attachment to withstand reflow temperatures up to 260°C
- Copper leads for excellent heat dissipation

Model 4300H Series

Bourns® Resistor Networks

FOR SCHEMATICS, SEE FOLLOWING PAGE.

Electrical Characteristics

Resistance Range ..... 10 ohms to 10 megohms
Maximum Operating Voltage 100V
Temperature Coefficient of Resistance
50Ω to 2.2 MΩ ..... ±100ppm/°C
below 50Ω ..... ±250ppm/°C
above 2.2 MΩ ..... ±250ppm/°C
Voltage Coefficient ..... ±100ppm/V typical 1K ohms
TCR Tracking ..... 50ppm/°C maximum; equal values
Resistor Tolerance ..... See circuits
Operating Temperature ..... –55°C to +125°C

Environmental Characteristics

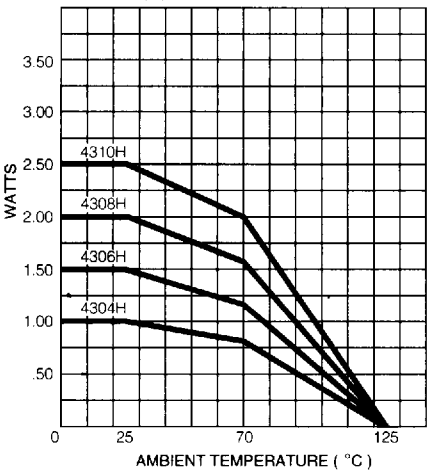
TESTS PER MIL-R-83401	ΔR MAX.
Short Time Overload	±0.25%
Load Life	±1.00%
Mechanical Shock	±0.25%
Moisture Resistance	±0.50%
Resistance to Soldering Heat	±0.25%
Terminal Strength	±0.25%
Thermal Shock	±0.25%
Vibration	±0.25%

Insulation Resistance ..... 10,000 megohms minimum
Dielectric Withstanding Voltage ..... 200 VRMS
Lead Solderability/Solvent Resistance .. Meet requirements of MIL-R-83401

Physical Characteristics

Flammability ..... Conforms to UL94V-0
Lead Frame Material
Copper (OLIN 194) 90/10 plated
Body Material ..... Novolac epoxy

PACKAGE POWER TEMPERATURE DERATING CURVE



Package Power Rating at 70°C

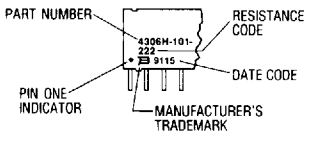
4304H	0.80 watts
4306H	1.20 watts
4308H	1.60 watts
4310H	2.00 watts

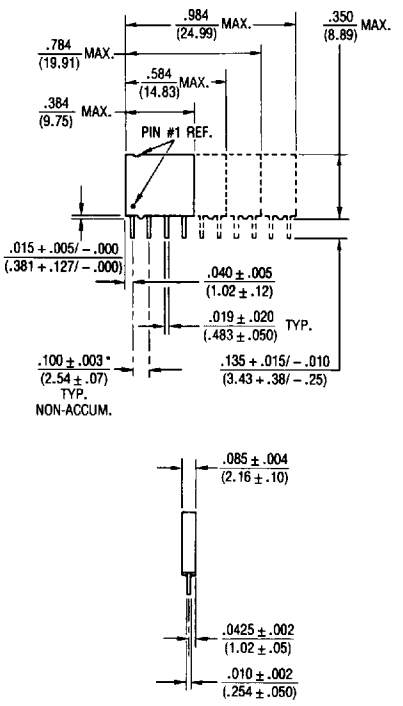
Package Power Rating at 25°C

4304H	1.00 watts
4306H	1.50 watts
4308H	2.00 watts
4310H	2.50 watts

TYPICAL PART MARKING

Represents total content. Layout may vary.





Governing dimensions are in inches. Dimensions in parentheses are metric (mm) and are approximate.

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

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.

Consult factory for other available options.

- Superior package integrity
- Trifurcated Krimp-Joint™ lead attachment for product reliability and strength
- Laser marking on contrasting background for permanent identification
- Available in military grade

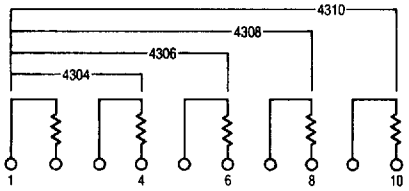
Model 4300H Series

FOR PRODUCT SPECIFICATIONS, SEE PRIOR PAGE.

BI® Resistor Networks

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.

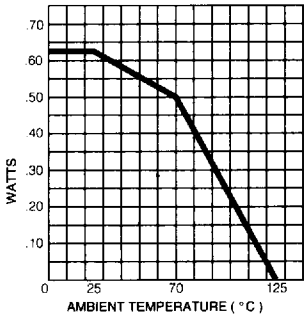
Resistance Tolerance

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

Power Rating per Resistor

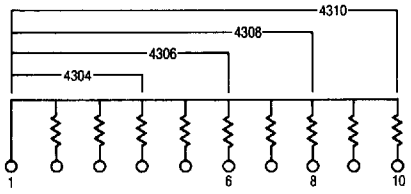
At 70°C .....0.50 watt
At 25°C .....0.625 watt

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.

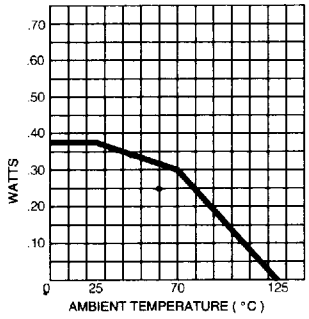
Resistance Tolerance

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

Power Rating per Resistor

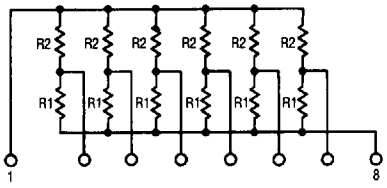
At 70°C .....0.30 watt
At 25°C .....0.375 watt

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).

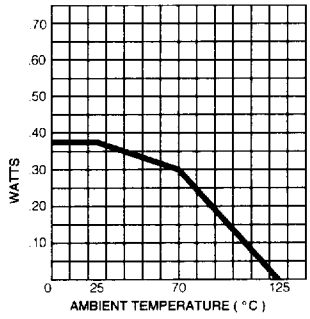
Resistance Tolerance

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
At 25°C .....0.375 watt

POWER TEMPERATURE DERATING CURVE



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

* ±1% Tolerance is available by adding suffix code "F" after the resistance code.
**Non-standard values available, within resistance range.

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

Specifications are subject to change without notice.