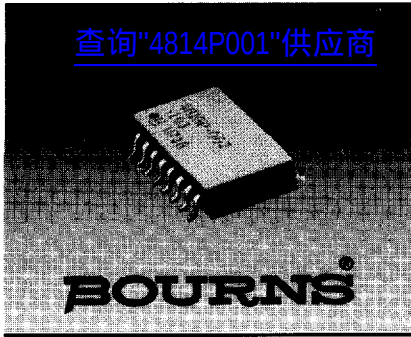


[查询"4814P001"供应商](#)



## THICK FILM SURFACE MOUNTED MEDIUM BODY (5.59MM) SOM PACKAGE / 14, 16, 18 AND 20 PINS

- Standard E.I.A. (SOGN-0002) package compatible with automatic placement equipment
- High temperature lead attachment to withstand reflow temperatures up to 260°C
- Tape and reel packaging standard (see page 94 for dimensions)

### Model 4800P

® Resistor Networks

#### Electrical Characteristics

##### Resistance Range

..... 10 ohms to 2.2 megohms  
Maximum Operating Voltage ..... 50V  
Temperature Coefficient of Resistance  
50Ω and above ..... ±100ppm/°C  
below 50Ω ..... ±250ppm/°C  
Voltage Coefficient  
For Values > 1K ohms  
..... ±100ppm/1K ohms

##### TCR Tracking

..... 50ppm/°C max.; equal values  
Operating Temperature  
..... -55°C to +125°C

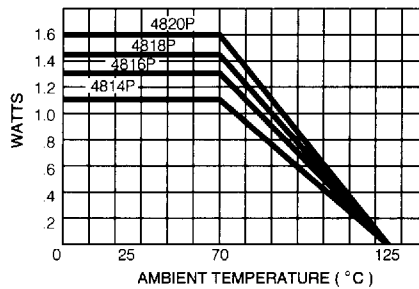
#### Environmental Characteristics

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%  
Thermal Shock ..... ±0.25%  
Insulation Resistance  
..... 10,000 megohms min.  
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) 60/40 solder dip  
Body Material ..... Novolac epoxy

#### PACKAGE POWER TEMPERATURE DERATING CURVE

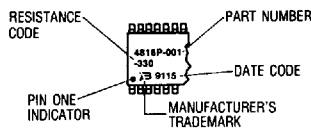


#### Package Power Rating at 70°C

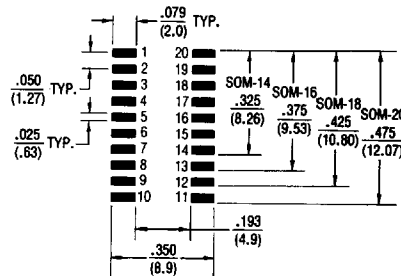
4814P ..... 1.12 watts  
4816P ..... 1.28 watts  
4818P ..... 1.44 watts  
4820P ..... 1.60 watts

#### TYPICAL PART MARKING

Represents total content. Layout may vary.

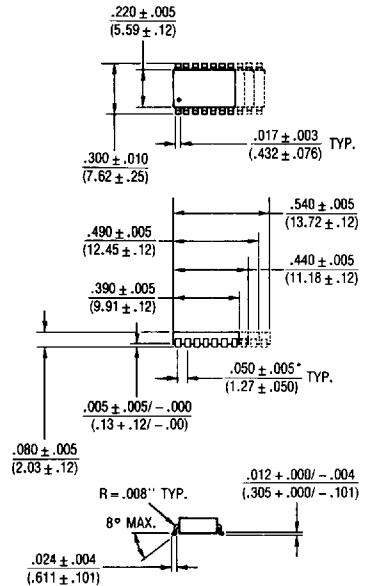


#### RECOMMENDED LAND PATTERN



NOTE: Land pattern dimensions are based on design rules established by the Institute for Interconnecting and Packaging Electronic Circuits in IPC-SM-782.

#### 4800P



Lead coplanarity .004 inch max. at mounting surface.

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

48 16 P - 001 - 103

Model  
(48 = SOM Pkg)

Number of Pins

Electrical Configuration

- 001/004 = Isolated\*
- 002 = Bussed\*
- 003 = Dual Terminator\*

Resistance Code

- First 2 digits are significant
- Third digit represents the number of zeros to follow.

\*For tube packaging, use T01, T02, T03 or T04. Consult factory for other available options.

Specifications are subject to change without notice.

### 查询"4814P001"供应商

- For ordering guidelines, see page 94
- Superior package integrity to withstand moisture and contamination
- Laser marking on contrasting background for permanent identification
- Compliant leads to reduce solder joint fatiguing
- Copper leads for superior heat dissipation
- Standard electrical schematics: isolated, bussed, dual terminator
- Custom circuits are available

## Model 4800P

® Resistor Networks

### ISOLATED RESISTORS

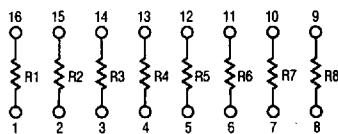
(001 and 004 CIRCUITS)

Model 4814P-001

Model 4816P-001 (Shown)

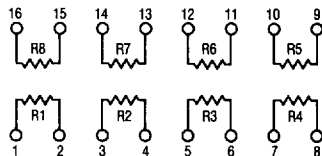
Model 4818P-001

Model 4820P-001



Model 4816P-004 (Shown)

Model 4820P-004



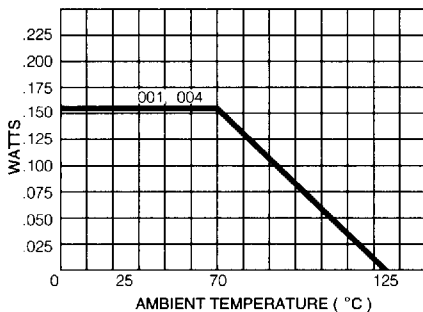
### Resistance Tolerance

10 ohms to 49 ohms .....  $\pm 1$  ohm  
50 ohms to 2.2 megohms .....  $\pm 2\%$ \*

### Power Rating per Resistor

001 Circuit at 70°C ..... 0.160 watt  
004 Circuit at 70°C ..... 0.160 watt

### PACKAGE POWER TEMPERATURE DERATING CURVE



### BUSSED RESISTORS

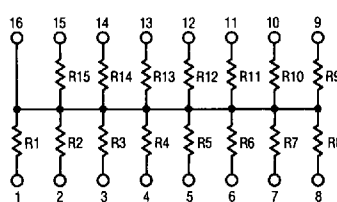
(002 CIRCUIT)

Model 4814P-002

Model 4816P-002 (Shown)

Model 4818P-002

Model 4820P-002



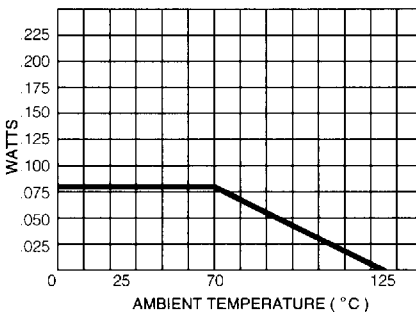
### Resistance Tolerance

10 ohms to 49 ohms .....  $\pm 1$  ohm  
50 ohms to 2.2 megohms .....  $\pm 2\%$ \*

### Power Rating per Resistor

002 Circuit at 70°C ..... 0.080 watt

### PACKAGE POWER TEMPERATURE DERATING CURVE



### DUAL TERMINATOR

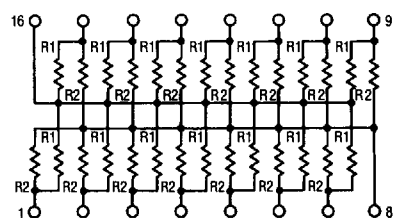
(003 CIRCUIT)

Model 4814P-003

Model 4816P-003 (Shown)

Model 4818P-003

Model 4820P-003



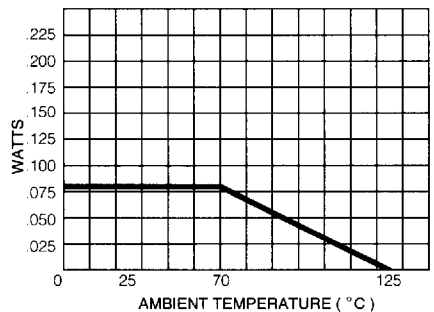
### Resistance Tolerance

Below 100 ohms .....  $\pm 2$  ohms  
100 ohms to 2.2 megohms .....  $\pm 2\%$ \*

### Power Rating per Resistor

003 Circuit at 70°C ..... 0.080 watt

### PACKAGE POWER TEMPERATURE DERATING CURVE



### RESISTANCE VALUES (001, 004, and 002 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  |

### RESISTANCE VALUES

(003 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            |

Specifications are subject to change without notice.

\*  $\pm 1\%$  Tolerance is available by adding suffix code "F" after the resistance code.

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