

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

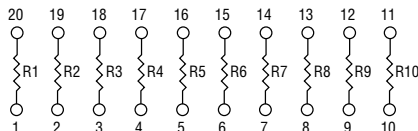
- [DRAM Applications](#)
- [Dual Terminator Resistor Networks](#)
- [R/2R Ladder Networks](#)
- [SCSI Applications](#)

4400P Series - Thick Film Surface Mounted Wide Body

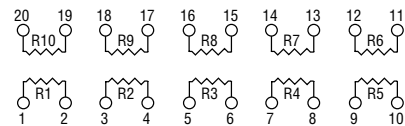
BOURNS®

Isolated Resistors (1 and 4 Circuits)

Model 4416P-1
Model 4420P-1 (Shown)



Model 4416P-4
Model 4420P-4 (Shown)



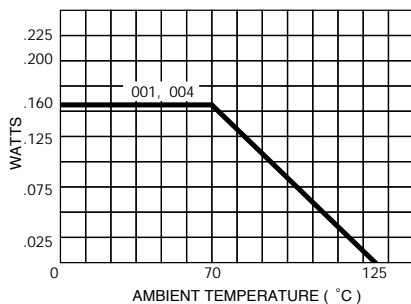
Resistance Tolerance

10 ohms to 49 ohms ± 1 ohm
50 ohms to 2.2 megohms ± 2 %*

Power Rating per Resistor

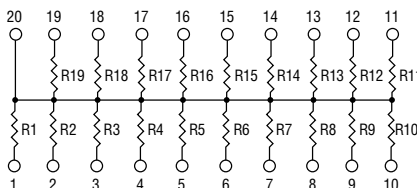
1 Circuit at 70 °C 0.160 watt
4 Circuit at 70 °C 0.160 watt

Resistor Power Temp. Derating Curve



Bussed Resistors (2 Circuit)

Model 4416P-2
Model 4420P-2 (Shown)



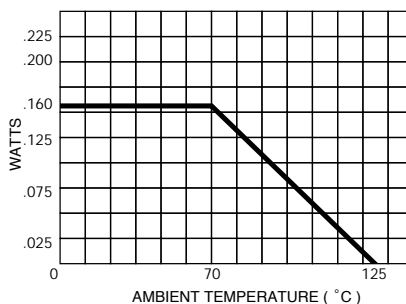
Resistance Tolerance

10 ohms to 49 ohms ± 1 ohm
50 ohms to 2.2 megohms ± 2 %*

Power Rating per Resistor

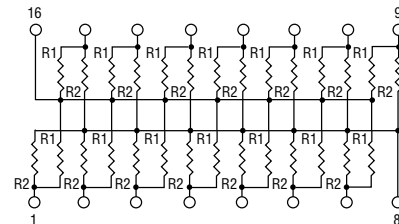
2 Circuit at 70 °C 0.160 watt

Resistor Power Temp. Derating Curve



Dual Terminator (3 Circuit)

Model 4416P-3
Model 4420P-3 (Shown)



4420P-3 terminates 16 lines,
convenient for a 16-bit computer bus.

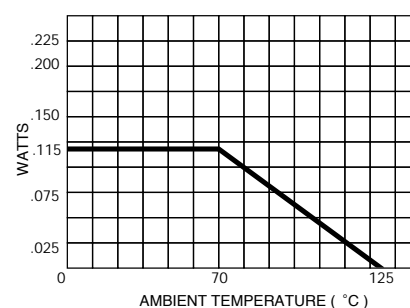
Resistance Tolerance

Below 100 ohms ± 2 ohms
100 ohms to 2.2 megohms ± 2 %*

Power Rating per Resistor

3 Circuit at 70 °C 0.115 watt

Resistor Power Temp. Derating Curve



Popular Resistance Values (1, 4 and 2 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.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

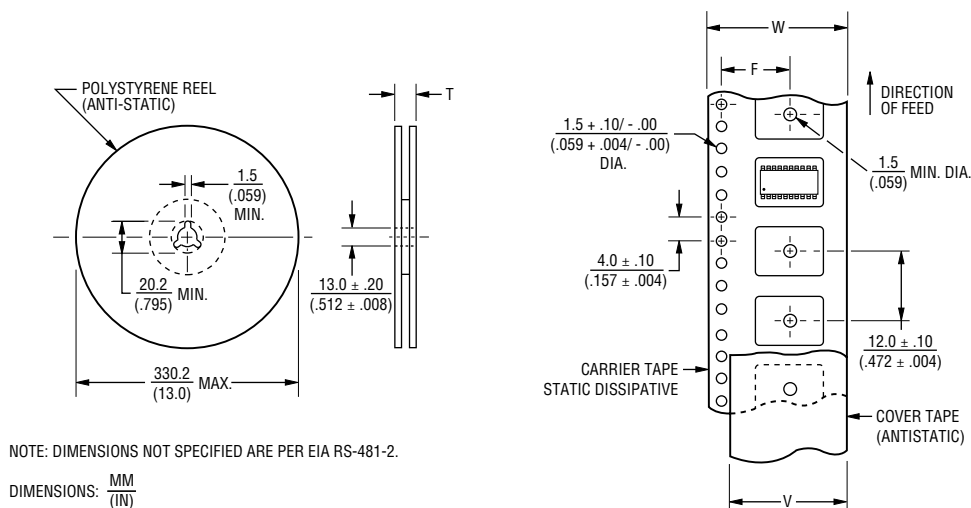
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Surface Mounted Ordering Guide

BOURNS®

Electrical Configuration	*Circuit Codes		Examples
	Tape & Reel	Tubes	
Isolated	1	T01	4416P-1-101
Bussed	2	T02	Isolated Circuit in Tape & Reel Package
Dual Terminated	3	T03	4416P-T01-101
Adj. Isolated	4	T04	Isolated Circuit in Slide Tube Package

*4416P-X-RC: To specify package type, replace "X" with appropriate "Circuit Code".



Model	Standard Quantity per Reel	Carrier Tape Width (W)	Cover Tape Width (W)	Reel Width (T)	Pocket Center (F)
4416P	1,500	$\frac{24.0 \pm .30}{(.945 \pm .012)}$	$\frac{21.0}{(.827)}$ NOM.	$\frac{30.4}{(1.197)}$ MAX.	$\frac{11.5 \pm .10}{(.453 \pm .004)}$
4420P	1,500				

Leader Length = 500 mm min. } Empty Component Pockets
 Trailer Length = 500 mm min. } Sealed with Cover Tape

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REV. 09/19

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