

## RC TERMINATION RESISTOR NETWORKS

- Low noise termination for CMOS
- Combined resistors and capacitors in SIP package saves space
- Reduced insertion time
- Insulation resistance testing for reliability
- Pin counts from 4 to 18 available

For additional information, see application note on pages 145 and 146.

## Model 700 Series

® Resistor Networks

FOR SCHEMATICS, SEE FOLLOWING PAGE.

### Electrical Characteristics - Resistors

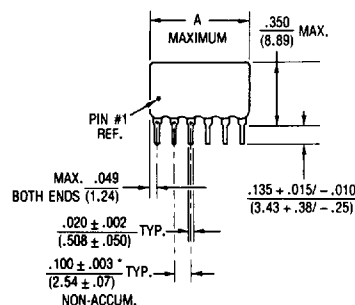
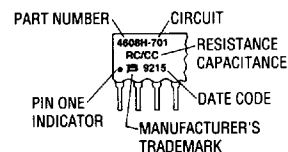
Standard Resistance Range ..... 22 ohms to 1 megohm  
 Resistance Tolerance ±2% ..... 50 ohms to 1 megohm  
 Operating Voltage ..... 50 volts maximum

### Electrical Characteristics - Capacitors

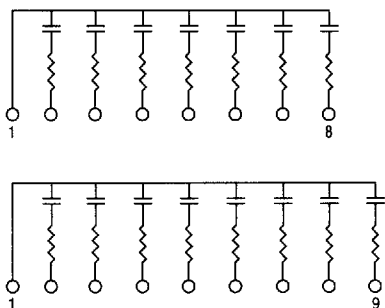
Capacitance Range ..... 39 pF to 39,000 pF  
 Capacitance Range ..... 330 pF to 39,000 pF X7R  
 Capacitance Range ..... 39pF to 270pF NPO  
 Capacitance Tolerance ..... ±20%  
 Operating Temperature ..... -55°C to +125°C  
 Voltage Rating ..... 50 volts

### Physical Characteristics

Flammability ..... Conforms to UL 94 V-0  
 Lead Frame Material ..... Copper (OLIN 194) 90/10 plated  
 Body Material ..... Conformal coat

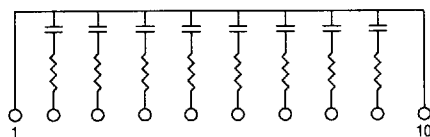


### 701



NO. OF LINES	BOURNS P/N	PACKAGE
7	4608H-701-RC/CC	High Profile Conformal SIP
8	4609H-701-RC/CC	
9	4610H-701-RC/CC	

### 702



NO. OF LINES	BOURNS P/N	PACKAGE
8	4610H-702-RC/CC	High Profile Conformal SIP

Pin Count	A Maximum Inches (mm)
4	.398 (10.11)
5	.498 (12.65)
6	.598 (15.19)
7	.698 (17.73)
8	.798 (20.27)
9	.898 (22.81)
10	.998 (25.35)
11	1.098 (27.89)
12	1.198 (30.43)
13	1.298 (32.97)
14	1.398 (35.51)
15	1.498 (38.04)
16	1.598 (40.59)
17	1.698 (43.13)
18	1.798 (45.67)

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.

**Advantages of RC Termination Resistor Networks:**

- Prevent bus lines and control signals from floating to undefined logic levels.
- Optimize signal transmission in high performance systems through proper termination.
- Eliminate overshoot and ringing, increase noise immunity, minimize signal distortion, and lower EMI/RFI radiation.
- Minimize space and routing problems, and reduce manufacturing cost per installed resistive function.
- Increase board yields and reliability by reducing component count.

**Model 700 Series**

B® Resistor Networks

FOR PRODUCT SPECIFICATIONS, SEE PRIOR PAGE.

**STANDARD RESISTANCE VALUES AND CODES**

Resistance (Ohms)	Resistance Code	Resistance (Ohms)	Resistance Code
22	220	5,600	562
27	270	6,800	682
33	330	8,200	822
39	390	10,000	103
47	470	12,000	123
56	560	15,000	153
68	680	18,000	183
82	820	20,000	203
100	101	22,000	223
120	121	27,000	273
150	151	33,000	333
180	181	39,000	393
220	221	47,000	473
270	271	56,000	563
330	331	68,000	683
390	391	82,000	823
470	471	100,000	104
560	561	120,000	124
680	681	150,000	154
820	821	180,000	184
1,000	102	220,000	224
1,200	122	270,000	274
1,500	152	330,000	334
1,800	182	390,000	394
2,000	202	470,000	474
2,200	222	560,000	564
2,700	272	680,000	684
3,300	332	820,000	824
3,900	392	1,000,000	105

**STANDARD CAPACITANCE VALUES AND CODES**

Capacitance	Capacitance Code	Capacitance	Capacitance Code
39pF	390	1000pF	102
47	470	1200	122
56	560	1500	152
68	680	1800	182
82	820	2200	222
100	101	2700	272
120	121	3300	332
150	151	3900	392
180	181	4700	472
220	221	5600	562
270	271	6800	682
330	331	8200	822
390	391	.010μF	103
470	471	.012	123
560	561	.015	153
680	681	.018	183
820	821	.022	223
		.027	273
		.033	333
		.039	393

Values not appearing in above tables are available to optimize system performance. Contact Bourns Networks to inquire.

**HOW TO ORDER RC TERMINATION NETWORKS****46 08 H - 701 - RC/CC**