

Environmental Specifications - Resistors

Features

- Cost-effective R-C construction
- Insulation resistance testing for reliability
- Molded surface mount or DIP packaging
- Compatible with automatic assembly equipment
- Custom value capability

■ RoHS compliant version available ("L" part number suffix)

For information on EMI/RFI Filters, download Bourns' EMI/RFI Filters Application Note

601 Series - RC Network T-Filters

General Description

Continual advances in digital IC technology are creating stringent demands on EMI/RFI levels in equipment.

EMI/RFI low pass filters are required in personal computers, data terminals, test equipment and process controllers for high frequency suppression into or out of electronic equipment.

Electrical Specifications - Resistors	
Standard Resistance Range*	10 ohms - 100 ohms
Series Resistance Tolerance	±10 %
Temperature Coefficient of Resistance	±300 ppm/°C
Operating Voltage	
Operating Temperatures	
*Other Resistance Values Available, 10 ohms - 1 megohm	

Electrical Specifications - Capacitors	
Standard Capacitance Range	80 pF to 200 pF
Capacitance Tolerance	
Temperature Characteristic	Z5U
Operating Temperatures	
Voltage Rating	25 volts
Dielectric Withstand Voltage	2.5 x rated voltage
Insulation Resistance	10,000 megohms minimum

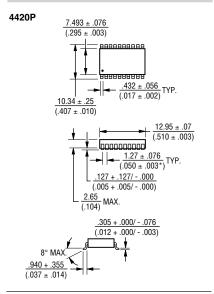
Liviloimental opecifications - riesistors	
	ΔR MAXIMUM
Thermal Shock	±0.5 %
Resistance to Solder Heat	±0.5 %

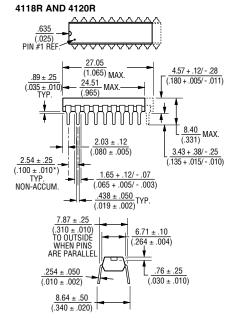
Terminal Strength	±0.5 %
Mechanical Specifications	
Flammability	Conforms to UL94 V-0
Leadframe	
Body Material	

Lead Solderability......Meet requirements of MIL-STD-202 Method 208

For Standard Values Used in Capacitors, Inductors, and Resistors, click here.

Product Dimensions





Governing dimensions are metric. Dimensions in parentheses are inches and are approximate.

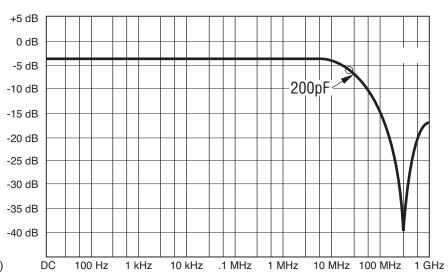
*Terminal centerline to centerline measurements made at point of emergence of the lead from the body.



WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Attenuation Vs. Frequency - Typical Capacitor Values With R = 25 Ohms

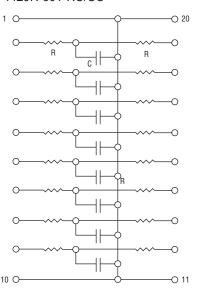
Attenuation vs. Frequency Model 4120R-601-250/201 Model 4420P-601-250/201 200 pF - 3 dB @ 21 MHz



O indicates - 3 dB rolloff frequency (fc)

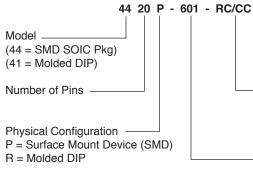
Typical Circuit

4120R-601-RC/CC 4420R-601-RC/CC



These low-pass filters are ideal for installation between I/O drivers and RS 232 connectors.

How To Order EMI/RFI Filter Networks



L = RoHS compliant (tin-plated)
Blank = Tin-lead plated

Resistance/Capacitance Code
First 2 digits are significant
Third digit represents the number of zeros to follow

Electrical Configuration
For tube packaging, use code
"T06"

Terminations

Insert RC/CC Code from table below to form part number.

RC	R	CC	С
250	25	101	100 pF
270	27	181	180 pF
470	47	201	200 pF
820	82		
101	100		

Consult factory for values not listed.

Packages Available

4420P-601-*RC/CC-SMD 4120R-601-*RC/CC-DIP 4118R-601-*RC/CC-DIP

*First two digits are significant. Third digit represents the number of zeros to follow.

Seven circuits in an 18-pin package. Eight circuits in a 20-pin package.

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