

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	
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	50 pF to 200 pF
Capacitance Tolerance	±30 %
	Z5U
Operating Temperatures	+10 °C to +85 °C
	25 volts
Dielectric Withstand Voltage	2.5 x rated voltage
	10,000 megohms minimum

Environmental Specifications - Resistors

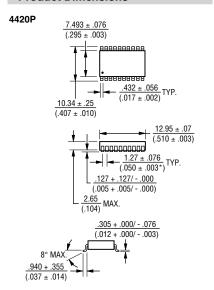
	AR MAXIMUM
Thermal Shock	±0.5 %
Resistance to Solder Heat	
Terminal Strength	
Tommar Oronger	

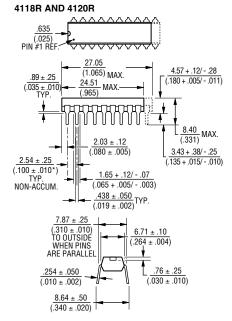
Mechanical Specifications

Flammability	Conforms to UL94 V-0
	Époxy/Novolac
	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.

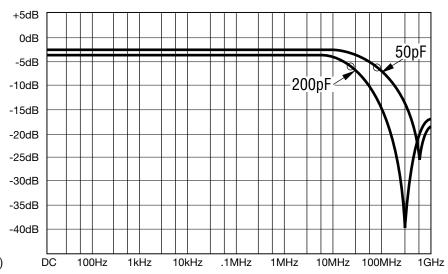
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BOURNS

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

Attenuation vs. Frequency Model 4120R-601-250/500 Model 4420-601-250/500 50pF - 3dB @ 84 MHz

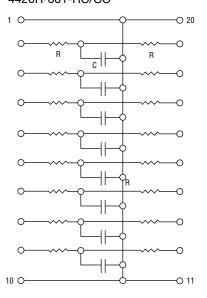
Attenuation vs. Frequency Model 4120R-601-250/201 Model 4420P-601-250/201 200pF - 3dB @ 21 MHz



O indicates - 3dB rolloff frequency (f_C)

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

44 20 P - 601 - RC/CC Model -**Terminations** (44 = SMD SOIC Pkg) L = RoHS compliant (tin-plated) (41 = Molded DIP)Blank = Tin-lead plated Number of Pins -Resistance/Capacitance Code · First 2 digits are significant · Third digit represents the Physical Configuration number of zeros to follow P = Surface Mount Device (SMD) R = Molded DIP **Electrical Configuration** For tube packaging, use code "T06"

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

RC	R	CC	С
250	25	500	50 pF
270	27	101	100 pF
470	47	181	180 pF
820	82	201	200 pF
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.