

#### **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



# 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.

Ele	ctri	cal S	pecifi	ications	s - 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	80 pF to 200 pF
Capacitance Tolerance	±30 %
Temperature Characteristic	Z5U
Operating Temperatures	
Voltage Rating	25 volts
Dielectric Withstand Voltage	2.5 x rated voltage
Insulation Resistance	10,000 megohms minimum

### **Environmental Specifications - Resistors**

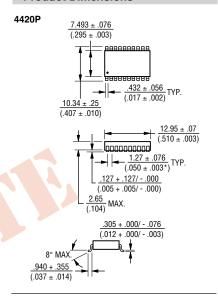
		ΔR MAXIMUM
Thermal Shock	 	 ±0.5 %
Resistance to Solder Heat		±0.5 %
Terminal Strength		±0.5 %

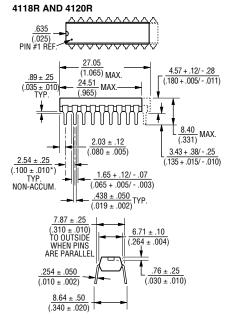
### **Mechanical Specifications**

Flammability	 		Conforms to UL94 V-0
			Epoxy/Novolac
Lead Solderability	 	.N	leet 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

### **Features (Continued)**

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

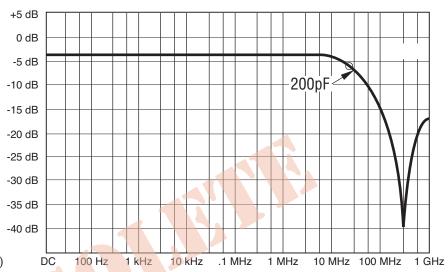
For information on EMI/RFI Filters, download Bourns' EMI/RFI Filters Application Note

## 601 Series - RC Networks T-Filters

## **BOURNS**®

### 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

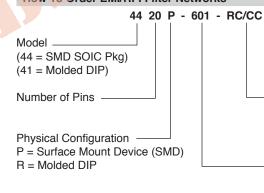


O indicates - 3 dB rolloff frequency (fc)

### **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.

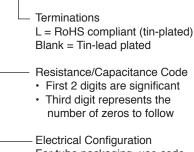
## How To Order EMI/RFI Filter Networks



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

RC	R	CC	С
250	25	800	80 pF
270	27	101	100 pF
470	47	181	180 pF
820	82	201	200 pF
101	100		

Consult factory for values not listed.



Electrical Configuration For tube packaging, use code "T06"

### **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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