

# Resistor/Capacitor Chip Network

## PCF RC Series

- RoHS Compliant
- Saves board space
- Reduces component count
- Resistor and capacitor on one 1206 size chip

## Electrical Data

	Resistor	Capacitor
<b>Range (<math>\Omega</math>)</b>	10 - 1K	10pF - 200pF
<b>Tolerance</b>	10%, 20%	20%
<b>Max Voltage</b>	5V	50V
<b>Power Rating</b>	0.125W	N/A
<b>Operating Temperature</b>	-55°C + 125°C	-55°C + 125°C
<b>Temperature Coefficient (-55°C to +85°C)</b>	200 ppm/°C	+20% / - 55%
<b>Dissipation Factor</b>	N/A	5% Max 1KHz

## Environmental Data

Test	Method	Test Limits
<b>Terminal Strength</b>	3mm bending for 10 seconds	No mechanical damage
<b>Resistance To Soldering Heat</b>	260°C $\pm$ 5°C for 10 $\pm$ 1 sec.	$\Delta$ R: $\pm$ 3% $\Delta$ C: $\pm$ 10%
<b>Resistance To Vibration</b>	(10~55~10 Hz) for 1 min. Amplitude 1.5mm 3 directions for 2 hours	$\Delta$ R: $\pm$ 3% $\Delta$ C: $\pm$ 10%
<b>Solderability</b>	235°C $\pm$ 5°C for 3 $\pm$ 0.5 sec.	$\Delta$ R: $\pm$ 3% $\Delta$ C: $\pm$ 10%
<b>Temperature Cycling</b>	-40°C/30 min., +125°C/ 30 min., 100 cycles	$\Delta$ R: $\pm$ 3% $\Delta$ C: $\pm$ 10%
<b>Terminal Strength</b>	70°C $\pm$ 2°C, DC50V "on" for 90 min. and "off" for 30 min. for 1,000 hours	$\Delta$ R: $\pm$ 3% $\Delta$ C: $\pm$ 10%
<b>Load Life In Humidity</b>	70°C $\pm$ 2°C, 90~95% RH DC50V "on" for 90 min. and "off" for 30 min. for 1,000hours	$\Delta$ R: $\pm$ 3% $\Delta$ C: $\pm$ 10%

## Physical Data

Model	A	B	C	D	E
<b>RC1206</b>	3.2 $\pm$ 0.2	1.6 $\pm$ 0.2	0.7 $\pm$ 0.1	0.5 $\pm$ 0.3	0.4 $\pm$ 0.2

## Ordering Data

Sample Part Number: **PCF** - **RC1206LF** - **330** **K** - **470** - **M**

Family: .....  
 Model: RC1206LF .....  
 Resistor Code: .....  
 Example: 330 = 33 $\Omega$ , 101 = 100 $\Omega$   
 Resistor Tolerance: .....  
 K=10%, M=20%  
 Capacitor Code: .....  
 Example: 470 = 47pF, 101 = 100pF  
 Capacitor Tolerance: .....  
 M =  $\pm$ 20%  
 Packaging Available: Tubes, Tape & Reel

### General Note

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