

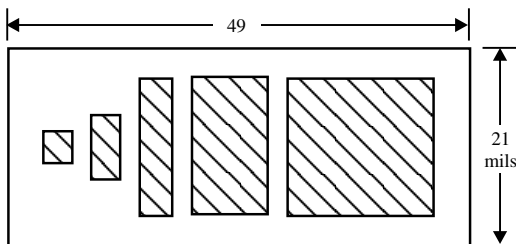
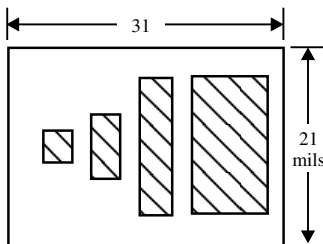


## Programmable Capacitor Chips

California Micro Devices' PCC Series thin film programmable capacitor chip shares the same characteristics of CAMD's CC Series thin film capacitors. Series PCC contains up to 5 capacitors with typical values of up to 1, 2, 4, 8 and 16pF capacitance. Binary ratios starting at 0.25 pF are also available. A common back metallization layer forms one plate of the capacitor; individual con-

tacts form the other plate; silicon dioxide dielectric features high Q and low positive, TCC over a wide temperature range. Series PCC is typically used in circuits involving active filters, such as - Chebyshev or Butterworth filter (multiple feedback design) for high pass, low pass, or band pass applications.

Electrical Specifications	
Operating Temperature Range	-55°C to 125°C
D.C. Working Voltage @ 25°C	As specified in C/V table
Peak Voltage @ 25°C	1.5 X Working Voltage
Dissipation Factor @ 1KHz, 1V, 25°C	0.1% max
Q @ 1 MHz, 50MV, 25°C	1000min.
Temperature Coefficient of Capacitance	±50ppm/°C



Mechanical Specifications	
Substrate	Silicon 10±2 mils thick
Backing	Gold
Metalization	Aluminum 10,000Å thick, min.

Packaging	
Two inch square trays of 400 chips maximum is standard.	

Notes	
1. For less than 2pF tolerance is ±25%	

Capacitance and Voltage Rating		
	Picofarads	Volts
<b>PCC04</b>	0.25 — 0.5 — 1 — 2	100V
	0.5 — 1 — 2 — 4	50V
	1 — 2 — 4 — 8	20V
<b>PCC05</b>	0.25 — 0.5 — 1 — 2 — 4	100V
	0.5 — 1 — 2 — 4 — 8	50V
	1 — 2 — 4 — 8 — 16	20V

Part Number Designation				
PCC	510	-X	O	J
Series	Significant figures of capacitance. R indicates decimal point.	-04 Capacitors/Chip -05 Capacitors/Chip	Significant figures of capacitance value will be two figures (16pF max.)	Tolerance M = ±20% ≥2pF