

# Panasonic® Multilayer Ceramic Chip Capacitors 0201, 0402, 0508, 0603, 0612, 0805, 1206, 1210 and 1812 (Cont.)



Size Code	Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							10	100	500	1,000		Qty.	Pricing	
1210	X5R	10	22µF	±20%	2.50	PCC2228CT-ND♦	16.09	121.46	455.48	—	PCC2228TR-ND♦	1,000	789.00	ECJ-4YB1A226M
			47µF	±20%	2.50	PCC2334CT-ND♦	33.13	250.00	937.50	—	PCC2334TR-ND♦	1,000	1625.00	ECJ-4YB1A476M
		6.3	22µF	±20%	2.50	PCC2179CT-ND♦	17.18	128.84	458.08	—	PCC2179TR-ND♦	1,000	762.00	ECJ-4YB0J226M
			47µF	±10%	2.50	PCC2301CT-ND♦	32.18	242.90	910.88	—	PCC2301TR-ND♦	1,000	1579.00	ECJ-4YB0J476M
			100µF	±20%	2.50	PCC2267CT-ND♦	57.79	436.14	1635.53	—	PCC2267TR-ND♦	1,000	2835.00	ECJ-4YB0J107M
			10µF	+80%/-20%	1.60	PCC2171CT-ND♦	6.00	45.02	160.08	290.15	PCC2171TR-ND♦	2,000	266.00/M	ECJ-4YF1E106Z
	Y5V	22µF	+80%/-20%	2.00	PCC2172CT-ND♦	7.13	53.48	190.16	344.67	PCC2172TR-ND♦	2,000	316.00/M	ECJ-4YF1A226Z	
		47µF	+80%/-20%	2.00	PCC2237CT-ND♦	16.09	121.46	455.48	789.49	PCC2237TR-ND♦	2,000	777.00/M	ECJ-4YF0J476Z	
	F	16	10µF	+80%/-20%	2.00	PCC2306CT-ND♦	6.18	45.38	164.14	—	PCC2306TR-ND♦	2,000	261.00/M	ECJ-4YF1C106Z
			22µF	+80%/-20%	2.00	PCC2307CT-ND♦	9.86	73.94	262.88	—	PCC2307TR-ND♦	2,000	437.00/M	ECJ-4YF1C226Z
		50	4.7µF	+80%/-20%	2.00	PCC2309CT-ND♦	6.97	52.27	185.84	—	PCC2309TR-ND♦	2,000	309.00/M	ECJ-4YF1H475Z
			10µF	+80%/-20%	2.00	PCC2308CT-ND♦	6.97	52.27	185.84	—	PCC2308TR-ND♦	2,000	309.00/M	ECJ-4YF1H106Z
1812	X7R	100	1.0µF	±20%	2.50	PCC2248CT-ND♦	13.62	102.78	—	—	PCC2248TR-ND♦	500	385.50	ECJ-5YB2A105M
		25	10µF	±20%	2.50	PCC2180CT-ND♦	20.82	156.15	—	—	PCC2180TR-ND♦	500	461.50	ECJ-5YB1E106M
	X5R	16	22µF	±20%	3.20	PCC2244CT-ND♦	31.80	239.98	—	—	PCC2244TR-ND♦	500	900.00	ECJ-5YB1C226M
		6.3	47µF	±20%	3.20	PCC2245CT-ND♦	27.24	205.57	—	—	PCC2245TR-ND♦	500	771.00	ECJ-5YB0J476M
	F	6.3	100µF	+80%/-20%	3.20	PCC2246CT-ND♦	36.78	277.60	—	—	PCC2246TR-ND♦	500	1041.00	ECJ-5YF0J107Z

♦ RoHS Compliant † Reduced DC Bias Voltage Characteristics ‡ Not for new design † Improved DC Bias Voltage Characteristics

## Digi-Key® Notebook Style Kit Boxes

Notebook style kit box with velcro closure can be stored as a normal kit box, or vertically as a book. Each compartment is identified with an easy-to-read kit index.

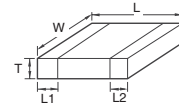
- PCC7-KIT-ND 0805/NPO Series Kit 10 each of values denoted (300 total pieces) ..... \$29.95
- PCC9-KIT-ND 0603/NPO Series Kit 10 each of values denoted (300 total pieces) ..... \$29.95

- PCC13-KIT-ND 0402/NPO Series Kit 10 each of values denoted (280 total pieces) ..... \$49.95
- PCC14-KIT-ND 0402/X7R Series Kit 10 each of values denoted (300 total pieces) ..... \$45.95
- PCC15-KIT-ND 0603/X7R-X5R Series Kit 10 each of values denoted (300 total pieces) ..... \$29.95
- PCC16-KIT-ND 0805/X7R Series Kit 10 each of values denoted (300 total pieces) ..... \$29.95
- PCC17-KIT-ND 1206/NPO Series Kit 10 each of values denoted (140 total pieces) ..... \$89.95

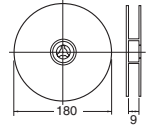
# Panasonic® High-Q (Microwave) Multilayer Chip Capacitors 0201 and 0402 High-Accuracy/High-Frequency



Features: • Lead Free • Operating Temperature Range: -55°C - 125°C • Low Cap. with Tight Tolerance • High Q value / Low ESR at High Frequency. • Ultra-Stable COG Performance (0±30 ppm/°C) • 0201 and 0402 Miniature Sizes Applications (At Microwave Frequency): • Impedance Matching Circuit • Resonant Circuit • Coupling Circuit Application Examples: • RF modules, VCO, BPF, DUP, PA, etc. • Cellular Phone, Bluetooth, Wireless LAN, etc.



Dimensions shown in mm.



Size Code (EIA)	L	W	T	L1 / L2
0201	0.60±0.03	0.30±0.03	0.30	0.15±0.05
0402	1.00±0.05	0.50±0.05	0.50	0.20±0.10

Size Code	Type	WV DC	Cap.	Tolerance	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.	
						10	100	500	1,000		Qty.	Pricing		
0201	COG	25	1.0pF	±0.05pF	PCC2337CT-ND♦	2.45	15.84	48.93	69.90	PCC2337TR-ND♦	15,000	62.00/M	ECG-GZER108	
			2.0pF	±0.05pF	PCC2338CT-ND♦	2.45	15.84	48.93	69.90	PCC2338TR-ND♦	15,000	62.00/M	ECG-GZER208	
			3.0pF	±0.05pF	PCC2339CT-ND♦	2.45	15.84	48.93	69.90	PCC2339TR-ND♦	15,000	62.00/M	ECG-GZER308	
			4.0pF	±0.05pF	PCC2340CT-ND♦	2.45	15.84	48.93	69.90	PCC2340TR-ND♦	15,000	62.00/M	ECG-GZER408	
			5.0pF	±0.05pF	PCC2341CT-ND♦	2.45	15.84	48.93	69.90	PCC2341TR-ND♦	15,000	62.00/M	ECG-GZER508	
			6.0pF	+0.075pF	PCC2342CT-ND♦	2.45	15.84	48.93	69.90	PCC2342TR-ND♦	15,000	62.00/M	ECG-GZER609	
			7.0pF	+0.075pF	PCC2343CT-ND♦	2.45	15.84	48.93	69.90	PCC2343TR-ND♦	15,000	62.00/M	ECG-GZER709	
			8.0pF	+0.075pF	PCC2344CT-ND♦	2.45	15.84	48.93	69.90	PCC2344TR-ND♦	15,000	62.00/M	ECG-GZER809	
			9.0pF	+0.075pF	PCC2345CT-ND♦	2.45	15.84	48.93	69.90	PCC2345TR-ND♦	15,000	62.00/M	ECG-GZER909	
			1.0pF	±0.10pF	PCC2346CT-ND♦	2.45	15.84	48.93	69.90	PCC2346TR-ND♦	15,000	62.00/M	ECG-GZE1R0B	
			1.1pF	±0.10pF	PCC2347CT-ND♦	2.45	15.84	48.93	69.90	PCC2347TR-ND♦	15,000	62.00/M	ECG-GZE1R1B	
			1.2pF	±0.10pF	PCC2348CT-ND♦	2.45	15.84	48.93	69.90	PCC2348TR-ND♦	15,000	62.00/M	ECG-GZE1R2B	
			1.3pF	±0.10pF	PCC2349CT-ND♦	2.45	15.84	48.93	69.90	PCC2349TR-ND♦	15,000	62.00/M	ECG-GZE1R3B	
			1.5pF	±0.10pF	PCC2350CT-ND♦	2.45	15.84	48.93	69.90	PCC2350TR-ND♦	15,000	62.00/M	ECG-GZE1R5B	
			1.6pF	±0.10pF	PCC2351CT-ND♦	2.45	15.84	48.93	69.90	PCC2351TR-ND♦	15,000	62.00/M	ECG-GZE1R6B	
			1.8pF	±0.10pF	PCC2352CT-ND♦	2.45	15.84	48.93	69.90	PCC2352TR-ND♦	15,000	62.00/M	ECG-GZE1R8B	
			2.0pF	±0.10pF	PCC2353CT-ND♦	2.45	15.84	48.93	69.90	PCC2353TR-ND♦	15,000	62.00/M	ECG-GZE2R0B	
			2.2pF	±0.10pF	PCC2356CT-ND♦	2.45	15.84	48.93	69.90	PCC2356TR-ND♦	15,000	62.00/M	ECG-GZE2R2B	
			2.4pF	±0.10pF	PCC2357CT-ND♦	2.45	15.84	48.93	69.90	PCC2357TR-ND♦	15,000	62.00/M	ECG-GZE2R4B	
			2.7pF	±0.10pF	PCC2358CT-ND♦	2.45	15.84	48.93	69.90	PCC2358TR-ND♦	15,000	62.00/M	ECG-GZE2R7B	
			3.0pF	±0.10pF	PCC2359CT-ND♦	2.45	15.84	48.93	69.90	PCC2359TR-ND♦	15,000	62.00/M	ECG-GZE3R0B	
			3.3pF	±0.25pF	PCC2360CT-ND♦	2.45	15.84	48.93	69.90	PCC2360TR-ND♦	15,000	62.00/M	ECG-GZE3R3C	
			3.9pF	±0.25pF	PCC2361CT-ND♦	2.45	15.84	48.93	69.90	PCC2361TR-ND♦	15,000	62.00/M	ECG-GZE3R9C	
			4.7pF	±0.25pF	PCC2362CT-ND♦	2.45	15.84	48.93	69.90	PCC2362TR-ND♦	15,000	62.00/M	ECG-GZE4R7C	
			1.0pF	±0.05pF	PCC2190CT-ND†	2.45	15.84	48.93	69.90	PCC2190TR-ND♦	10,000	62.00/M	ECG-G0E1R08	
			1.0pF	±0.05pF	PCC2192CT-ND†	2.45	15.84	48.93	69.90	PCC2192TR-ND♦	10,000	62.00/M	ECG-G0E1R208	
			3.0pF	±0.05pF	PCC2194CT-ND†	2.45	15.84	48.93	69.90	PCC2194TR-ND♦	10,000	62.00/M	ECG-G0E1R208	
			3.0pF	±0.05pF	PCC2195CT-ND†	5.59	37.00	139.78	222.01	—	—	—	—	ECG-G0E1R358
			4.0pF	±0.05pF	PCC2196CT-ND†	2.45	15.84	48.93	69.90	PCC2196TR-ND♦	10,000	62.00/M	ECG-G0E1R408	
			5.0pF	±0.05pF	PCC2198CT-ND†	2.45	15.84	48.93	69.90	PCC2198TR-ND♦	10,000	62.00/M	ECG-G0E1R508	
			5.5pF	+0.075pF	PCC2199CT-ND	2.55	16.88	63.75	101.25	—	—	—	—	ECG-G0E1R559
			6.0pF	+0.075pF	PCC2200CT-ND†	2.45	15.84	48.93	69.90	PCC2200TR-ND♦	10,000	62.00/M	ECG-G0E1R609	
			7.0pF	+0.075pF	PCC2202CT-ND†	2.45	15.84	48.93	69.90	PCC2202TR-ND♦	10,000	62.00/M	ECG-G0E1R709	
			8.0pF	+0.075pF	PCC2204CT-ND†	2.45	15.84	48.93	69.90	PCC2204TR-ND♦	10,000	62.00/M	ECG-G0E1R809	
			9.0pF	+0.075pF	PCC2206CT-ND†	2.45	15.84	48.93	69.90	PCC2206TR-ND♦	10,000	62.00/M	ECG-G0E1R909	
			1.0pF	±0.10pF	PCC2252CT-ND†	2.45	15.84	48.93	69.90	PCC2252TR-ND♦	10,000	62.00/M	ECG-G0E1R0B	
1.1pF	±0.10pF	PCC2209CT-ND†	2.45	15.84	48.93	69.90	PCC2209TR-ND♦	10,000	62.00/M	ECG-G0E1R1B				
1.2pF	±0.10pF	PCC2210CT-ND†	2.45	15.84	48.93	69.90	PCC2210TR-ND♦	10,000	62.00/M	ECG-G0E1R2B				
1.3pF	±0.10pF	PCC2211CT-ND†	2.45	15.84	48.93	69.90	PCC2211TR-ND♦	10,000	62.00/M	ECG-G0E1R3B				
1.5pF	±0.10pF	PCC2213CT-ND†	2.45	15.84	48.93	69.90	PCC2213TR-ND♦	10,000	62.00/M	ECG-G0E1R5B				
1.6pF	±0.10pF	PCC2214CT-ND†	2.45	15.84	48.93	69.90	PCC2214TR-ND♦	10,000	62.00/M	ECG-G0E1R6B				
1.8pF	±0.10pF	PCC2216CT-ND†	2.45	15.84	48.93	69.90	PCC2216TR-ND♦	10,000	62.00/M	ECG-G0E1R8B				
2.0pF	±0.10pF	PCC2218CT-ND†	2.45	15.84	48.93	69.90	PCC2218TR-ND♦	10,000	62.00/M	ECG-G0E2R0B				
2.2pF	±0.10pF	PCC2253CT-ND†	2.45	15.84	48.93	69.90	PCC2253TR-ND♦	10,000	62.00/M	ECG-G0E2R2B				
2.4pF	±0.10pF	PCC2254CT-ND†	2.45	15.84	48.93	69.90	PCC2254TR-ND♦	10,000	62.00/M	ECG-G0E2R4B				
2.7pF	±0.10pF	PCC2255CT-ND†	2.45	15.84	48.93	69.90	PCC2255TR-ND♦	10,000	62.00/M	ECG-G0E2R7B				
3.0pF	±0.10pF	PCC2256CT-ND†	2.45	15.84	48.93	69.90	PCC2256TR-ND♦	10,000	62.00/M	ECG-G0E3R0B				
3.3pF	±0.25pF	PCC2258CT-ND†	2.45	15.84	48.93	69.90	PCC2258TR-ND♦	10,000	62.00/M	ECG-G0E3R3C				
3.9pF	±0.25pF	PCC2259CT-ND†	2.45	15.84	48.93	69.90	PCC2259TR-ND♦	10,000	62.00/M	ECG-G0E3R9C				
4.7pF	±0.25pF	PCC2260CT-ND†	2.45	15.84	48.93	69.90	PCC2260TR-ND♦	10,000	62.00/M	ECG-G0E4R7C				
5.6pF	±0.25pF	PCC2261CT-ND†	2.45	15.84	48.93	69.90	PCC2261TR-ND♦	10,000	62.00/M	ECG-G0E5R6C				
6.8pF	±0.25pF	PCC2262CT-ND†	2.45	15.84	48.93	69.90	PCC2262TR-ND♦	10,000	62.00/M	ECG-G0E6R8C				
8.2pF	±0.25pF	PCC2263CT-ND†	2.45	15.84	48.93	69.90	PCC2263TR-ND♦	10,000	62.00/M	ECG-G0E8R2C				
10.0pF	±0.25pF	PCC2264CT-ND†	2.45	15.84	48.93	69.90	PCC2264TR-ND♦	10,000	62.00/M	ECG-G0E100C				
12pF	±5%	PCC2265CT-ND†	2.45	15.84	48.93	69.90	PCC							