

High Q (Microwave) Multilayer Chip Capacitors



0402 EIA Package Type
High-Accuracy — High-Frequency



PCC20-KIT-ND

Includes 20 each of 30 values (600 total pieces)

Features

- Low capacitance with tight tolerance
- High Q value and low ESR at high frequencies
- Ultrastable C0G performance ($\pm 30\text{ppm}/^\circ\text{C}$)

Applications

- Impedance matching, resonant and coupling circuits
- For RF modules, VCO, BPF, DUP, PA
- Cellular phones; Bluetooth devices; Wireless LAN

Specifications

- **Temperature Characteristics:** C0G (NP0)
- **Insulation Resistance:** 10 GOhm min.
- **Operating Temperature:** $-55^\circ\text{C} \sim 125^\circ\text{C}$
- **Voltage:** 25VDC max.
- **Dissipation Factor:** 0.5% max.

Dimensions

- **Length:** 1.0mm typ.
- **Width:** 0.5mm typ.
- **Height:** 0.5mm typ.

Parts are also available individually.

For Tape & Reel parts, change CT-ND to TR-ND.

Capacitance Tolerance	Capacitance (Typ.)	Panasonic Part No.	Digi-Key Part No.
$\pm 0.05\text{pF}$	0.1pF	ECD-G0ER108	PCC2190CT-ND
	0.2pF	ECD-G0ER208	PCC2192CT-ND
	0.3pF	ECD-G0ER308	PCC2194CT-ND
	0.4pF	ECD-G0ER408	PCC2196CT-ND
$\pm 0.75\text{pF}$	0.5pF	ECD-G0ER508	PCC2198CT-ND
	0.6pF	ECD-G0ER609	PCC2200CT-ND
	0.7pF	ECD-G0ER709	PCC2202CT-ND
	0.8pF	ECD-G0ER809	PCC2204CT-ND
	0.9pF	ECD-G0ER909	PCC2206CT-ND
	1.0pF	ECD-G0ER1R0B	PCC2252CT-ND
$\pm 0.10\text{pF}$	1.1pF	ECD-G0ER1R1B	PCC2209CT-ND
	1.2pF	ECD-G0ER1R2B	PCC2210CT-ND
	1.3pF	ECD-G0ER1R3B	PCC2211CT-ND
	1.5pF	ECD-G0ER1R5B	PCC2213CT-ND
	1.6pF	ECD-G0ER1R6B	PCC2214CT-ND
	1.8pF	ECD-G0ER1R8B	PCC2216CT-ND
	2.0pF	ECD-G0ER2R0B	PCC2218CT-ND
	2.2pF	ECD-G0ER2R2B	PCC2253CT-ND
	2.4pF	ECD-G0ER2R4B	PCC2254CT-ND
	2.7pF	ECD-G0ER2R7B	PCC2255CT-ND
$\pm 0.25\text{pF}$	3.0pF	ECD-G0ER3R0B	PCC2256CT-ND
	3.3pF	ECD-G0ER3R3C	PCC2258CT-ND
	3.9pF	ECD-G0ER3R9C	PCC2259CT-ND
	4.7pF	ECD-G0ER4R7C	PCC2260CT-ND
	5.6pF	ECD-G0ER5R6C	PCC2261CT-ND
	6.8pF	ECD-G0ER6R8C	PCC2262CT-ND
	8.2pF	ECD-G0ER8R2C	PCC2263CT-ND
$\pm 5\%$	10.0pF	ECD-G0ER100C	PCC2264CT-ND
	12.0pF	ECD-G0ER120J	PCC2265CT-ND
	15.0pF	ECD-G0ER150J	PCC2266CT-ND