

HRQ Series RF High Q Multilayer Chip Ceramic Capacitor

1 . Capacitor characteristics and applications



1.1 Characteristics

- Size specifications are standardized and suitable for surface mount components in hybrid integrated circuits or printed circuits;
- High Q value, ultra low ESR, high reliability;
- Low loss, high capacitance stability, high operating frequency;
- Suitable for high-frequency circuits, VHF-microwave bands, RF and amplification circuits in various equipment;

1.2 Main performance indicators

- Temperature coefficient: C0G: $0\pm 30\text{ppm}/^\circ\text{C}$
- Capacitance drift: no more than $\pm 0.2\%$ or $\pm 0.05\text{pF}$, whichever is larger.
- Quality factor (Q value): greater than 2,000 at a frequency of 1mHz/1kHz
- Insulation resistance: $\geq 1000000\text{m}\Omega$ at 20°C
- Operating temperature: $-55\sim 125^\circ\text{C}$

2 . Product model naming

How to order

<u>HRQ</u> 	<u>1111</u> 	<u>C0G</u> 	<u>1R0</u> 	<u>B</u> 	<u>501</u> 	<u>N</u> 	<u>T</u>
Product series	Size specifications	Type of Dielectric	Capacitance (unit: pF)	Tolerance	Rated voltage	Termination	Packaging form
HRQ series RF high Q capacitor	0402 1111 0603 2525 3838 0805 0505 0709	C0G: +30ppm/°C	The first two digits are significant figures, and the last digit is the power of 10	A : $\pm 0.05\text{pF}$ B : $\pm 0.10\text{pF}$ C : $\pm 0.25\text{pF}$ D : $\pm 0.50\text{pF}$ F : $\pm 1.0\%$ G : $\pm 2.0\%$ J : $\pm 5.0\%$ K : $\pm 10.0\%$	The first two digits are significant figures, and the last digit is the power of 10	N:Leading-out Terminal: Ag/Ni/Sn Z: Leading-out Terminal: Ag/Ni/SnPb E: Non-magnetic Terminal M: MMicrostrip A: Axial tape RW: Radial wire RN: Non-magnetic radial wire	T: Tape & reel C: Cut Tray B: Bulk