

# 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:  $0\pm30\text{ppm}/^\circ\text{C}$
- Capacitance drift: no more than  $\pm0.2\%$  or  $\pm0.05\text{pF}$ , whichever is larger.
- Quality factor (Q value): greater than 2,000 at a frequency of 1mHz/1kHz
- Insulation resistance:  $\geq100000\text{m}\Omega$  at  $20^\circ\text{C}$
- Operating temperature:  $-55\sim125^\circ\text{C}$

## 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 : $\pm0.05\text{pF}$ B : $\pm0.10\text{pF}$ C : $\pm0.25\text{pF}$ D : $\pm0.50\text{pF}$ F : $\pm1.0\%$ G : $\pm2.0\%$ J : $\pm5.0\%$ K : $\pm10.0\%$		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: MMicrowave A: Axial tape RW: Radial wire RN: Non-magnetic radial wire	T: Tape & reel C: Cut Tray B: Bulk