



Johanson Technology provides High Frequency Ceramic Solutions for cellular, WLAN, Bluetooth, RF/Microwave, Millimeter Wave, and Fiber Optic applications, as well as custom high frequency ceramic solutions. We offer a broad range of Multi and Single Layer Capacitors, RF Inductors, LTCC based Chip Antennas, Baluns, Balanced Filters, Band Pass Filters, Low Pass Filters, Couplers, and Diplexers, as well as other components.

With a highly experienced design team, we produce superior High Frequency Ceramic Solutions through optimization of ceramics, inks and RF circuit designs. We have received certification to the ISO9001-2000 standard and use this widely accepted standard to ensure design control. Our broad experience and capabilities make us the right choice as Your Technology Partner.

- Multi-Layer High-Q Capacitors
- Broadband Capacitors
- Microwave Single Layer Capacitors
- RF Ceramic Chip Inductors
- RF Wirewound Chip Inductors
- Integrated Passive Components
- Application Specific Products

Multi-Layer High-Q Capacitors

These lines of multilayer capacitors have been developed for High-Q and microwave applications.

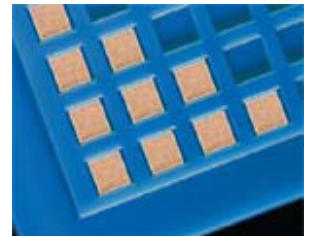
Key Features:

- The S-Series (R03S, R07S, R14S, R15S) capacitors give an ultra-high Q performance, and exhibit NP0 temperature characteristics
- The L-Series (R05L) capacitors give mid-high Q performance, and exhibit NP0 temperature characteristics.
- The E-Series (S42E, S48E, S58E) capacitors give excellent high-Q performance from HF to Microwave frequencies. Typical uses are high voltage, high current applications. They are offered in chip (Ni barrier or Non-Magnetic Pt.-Ag) or in Non-Magnetic leaded form.
- The W-Series (R05W) capacitors offer a large capacitance value in an ultra-small 0201 package size. These exhibit a X7R temperature characteristic.
- RoHS compliance is standard for all unleaded parts.



Broadband Capacitors

Johanson Technology's new "GBBL" microwave capacitor features high capacitance per case size without sacrificing the temperature stability associated with high dielectric constant materials. GBBL capacitors feature a proprietary X7R composition which is manufactured by a two step, atmospheric controlled sintering process. The resulting microstructure is composed of a conducting titanate ceramic grain in contact with an insulating Grain Boundary Layer (GBBL). The insulating boundary layer acts as a very thin dielectric. The process control of the boundary thickness, in conjunction with the conductive grain size, provides the cumulative effect of a very high, yet stable, dielectric constant.



RF Ceramic Chip Inductors

High frequency multi-layer chip inductors feature a monolithic body made of low loss ceramic and high conductivity metal electrodes to achieve optimal high frequency performance.

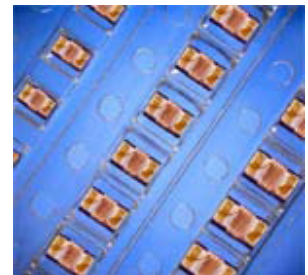
These RF chip inductors are compact in size and feature lead-free tin plated nickel barrier terminations and tape and reel packaging which makes them ideal for small size/high volume wireless applications.



RF Wirewound Chip Inductors

These high frequency High-Q chip inductors feature a monolithic body made of low loss ceramic wound with wire to achieve optimal high frequency performance.

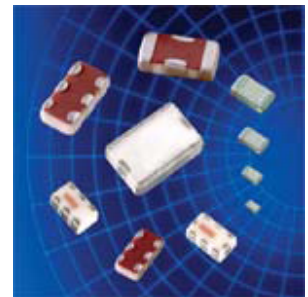
These RF chip inductors are compact in size and are provided on tape and reel packaging which makes them ideal for high volume RF applications. They feature a nickel barrier with a top plating of gold for the ceramic core types (all 0402, all 0603, and most 0805 types), and with a top plating of 100% tin for the ferrite core types (0805 size, 470 nH and higher). Most inductance values between those listed are available on request.



Integrated Passive Components

Johanson Technology has developed a line of small, highly reliable RF ceramic components manufactured with a proprietary LTCC (low temperature co-fired ceramic) process. These components operate over several bands from 900MHz to 6 GHz covering Cellular, DECT, WLAN, Bluetooth, 802.11 (a,b and g) and GPS applications.

In addition to the array of listed components we can support custom solutions for high volume applications with design flexibility and short development times. Contact us today with your specific technical requirements.



Application Specific Products

- WiMax Products
- UWB Products
- 2.4 GHz Wifi Products
- 5.5 GHz Wifi Products
- Wifi Dual Band Products
- GPS Products
- EMI Filter Array (LTCC) Products

