

# Capacitors for Mission Critical Applications



Quantic offers a diverse range of capacitor technologies, including multilayer polymer film capacitors, multilayer ceramic capacitors and assemblies, high-frequency RF & Microwave ceramic capacitors, as well as the most power-dense hybrid wet tantalum capacitors in the industry. These capacitors are designed to deliver critical performance in defense, aerospace, energy, and communications applications, where reliability, space efficiency, weight reduction, and power optimization are critical requirements.

## Quantic™ Evans

### Hybrid Wet Tantalum

Evans hybrid wet tantalum capacitors are the most power dense in the industry, providing significant SWaP savings compared to traditional capacitor technologies.

- Voltage range from 10 to 125V
- Cap values ranges from 22uF-1F
- Rugged hermetically sealed design withstands high shock & vibration
- Ultra-low ESR “enable” high-current applications
- Space Grade [Qualified to NASA-INST-002]

[www.quanticevans.com](http://www.quanticevans.com)

## Quantic™ Eulex

### High Frequency RF & Microwave Ceramic

Eulex's Patented technology allows ceramic capacitors to be manufactured with higher capacitance using fewer dielectrics improving temperature and frequency performance in a high reliability package

- Up to 20X capacitance
- Frequencies exceeding 100GHz
- Ultra-high Q dielectrics
- Product offering includes gap, binary, broadband, vertical layer, high Q capacitors
- Voltage range from 6.3V-1500V

[www.quanticeulex.com](http://www.quanticeulex.com)

## Quantic™ Paktron

### Multi-layer Polymer (MLP) Stacked Film

Paktron's Multilayer Polymer capacitors offer a ceramic capacitor alternative in specific “cannot fail” applications that demand robust mechanical & electrical solutions.

- Highest ripple current rating per C\*V in the industry
- Offers better electrical stability over temperature compared to XB
- Self healing - does not fail short
- Mechanically flexible does not crack
- Voltage ratings from 50VDC-500VDC
- Cap values from 0.1uF-20uF

[www.quantickpaktron.com](http://www.quantickpaktron.com)

## Quantic™ UTC

### Multi-layer Ceramic (MLCC)

UTC manufactures standard and engineered high-reliability multi-layer ceramic chip capacitors (MLCCs) and leaded devices, approved to produce MIL-PRF 49470 parts to standard (B) level and (T) space levels in addition to a wide variety of DLA drawings.

- Equipped to perform a variety of MIL-PRF testing
- Low ESR & ESL – excellent for frequency decoupling
- Multiple dielectrics available including NP0, X7R, X5R, Y5V - PME and BME formulations.
- Low-cost manufacturing options available

[www.quanticutc.com](http://www.quanticutc.com)

# An Experienced, Trusted Partner

## Industry-leading Manufacturers

Quantic's component businesses have over a century of combined experience as trusted electronics partners in military, aerospace, industrial and commercial markets.

## A Proven Approach

Our electronics experts attack application challenges at a foundational level, collaborating engineer-to-engineer with leading OEMs to design and build performance-driven devices from the ground up.

## A Global, Agile Powerhouse

We continue to grow globally with best-in-class manufacturers, streamlining the design-through-delivery process to expand our electronics portfolio.



[www.quanticonow.com](http://www.quanticonow.com)

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