

SWaP Optimized Capacitors for Mission-Critical Applications



Quantic Evans hybrid wet tantalum capacitors are the most power dense in the industry, providing significant SWaP savings when compared to traditional capacitor technologies. Their trusted and proven products are qualified and in service with all Tier 1 aerospace and defense contractors.

- Voltage ranges from 10V - 125V (higher for Capacitor Bank Assemblies)
- Ultra-low ESR
- Withstands extreme temperature, shock, and vibration environments
- Unlimited Shelf Life
- Space Grade (routinely screened and qualified to NASA-INST 002); ESA approved
- ECCN EAR99

Featured Products



TDB Series

- 1.0" x 1.0" square base [5 heights]
- Voltage Range: 10V-125V
- Cap Range: 750uF - 150,000uF



TDD Series

- 1.4" x 1.4" square base [6 heights]
- Voltage Range: 10V-125V
- Cap Range: 1.5mF - 300mF
- Ultra low ESR
- DLA 15010



TDE Series

- 1.4" x 1.4" square base [6 heights]
- Voltage Range: 60V-110V
- Cap Range: 2.2mF - 25mF
- Ultra low ESR



THQ Series

- 1.4" round base [5 heights]
- Voltage Range: 10V-125V
- Cap Range: 1.1mF - 200mF
- >over 20 years of proven field service
- DLA 04001, DLA 04003
DLA 04004, DLA 09022



THQA2/M2/S2 Series

- 0.6" round base
- M2 - mounting case option
- S2 - High Shock Option
- Voltage Range: 10V-125V
- Cap Range: 215uF - 10,000uF
- DLA 04005



HyCap Series

- Axial Form Factor
- 3 case sizes - T1, T2, T4
- Voltage Range: 10V-150V
- Cap Range: 2uF - 2700uF
- High temp 200°C options available
- DLA 10004, DLA 93026



Capattery series

- Double layer carbon capacitor technology
- Voltage range: 5.5V - 11V
- Capacitance range: 0.47F - 1F
- High shock options available



Modules

- Configurable with any Quantic Evans capacitor
- Available in 2 - 8 capacitor assemblies
- Can choose connector, wiring, orientation, and more





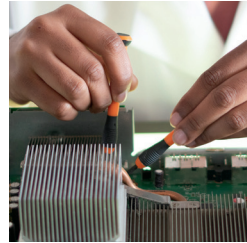
Common Applications

- Radar (T/R module)
- Power hold-up (MIL-STD-704 / DO 160)
- Propulsion in Space
- Oil & Gas
 - Electromagnetic pulse
 - Pulsed laser
 - High power microwave Electric



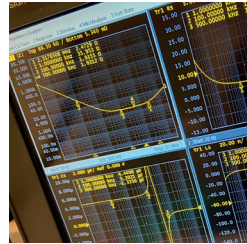
Design

The operating principal behind Quantic Evans hybrid technology lies within the combination of a high voltage bearing Tantalum Pentoxide (Ta2O5) anode and a Ruthenium Oxide (RuO2) cathode. When paired, this combination yields the most power dense capacitor in the industry. Quantic Evans capacitors come in a rugged, hermetically sealed, tantalum case and have an unlimited shelf life. Their robust design allows for extreme duty cycles and can withstand high currents, high temperature, and high shock/vibration environments. They are well suited for applications from undersea to deep space and everything in between.



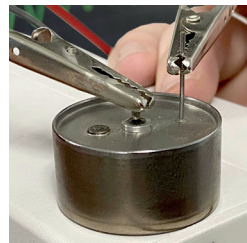
SWaP Optimized

Quantic Evans capacitors are 1/10th the size of traditional wet tantalum capacitors and 1/4 the size of the industry's leading aluminum electrolytic capacitor. They also provide high capacitance ratings, long operating life, low ESR, and high current handling capability in a hermetically sealed Hi-Rel package.



Testing

Quantic Evans is certified to ISO9001 and AS9100. Our product is 100% serialized, Inspected, characterized and fully traceable. Every capacitor that is built undergoes over 48 hours of extensive testing which has given it its unmatched reputation for quality and reliability. These capacitors have been proven in over 20 years of field service and numerous customer application qualification tests for use in Military and Aerospace Systems.



Quantic™ Evans



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