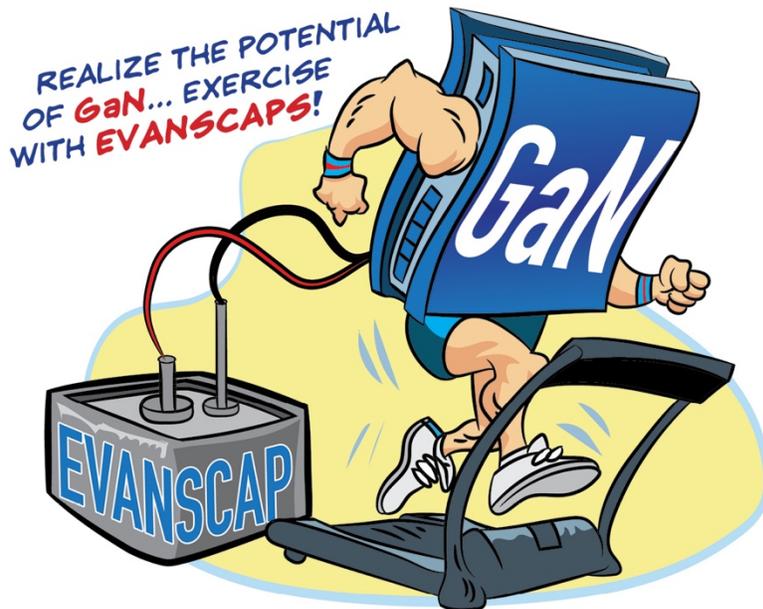




*Advanced Capacitors
for Demanding
Applications*

For GaN RADAR Applications



EVANSCAPS are driving the highest power GaN T/R Modules !

Galium Nitride technology provides the capability of very high power T/R modules. The higher power GaN T/R modules require large bulk capacitance, higher currents and faster rise times to realize their full potential. T/R module power supply developers are finding these characteristics in EVANSCAPS – Tantalum Hybrid Capacitors.

EVANSCAPS TDD series Hybrid Capacitors can provide higher power pulse without voltage droop. The high energy density of TDD EVANSCAPS allow more capacitance in a small volume, achieving reduced size of the overall T/R power module, yet providing higher power pulse and aggressive duty cycles. The very low ESR and excellent heat transfer characteristics allow for higher currents but with reduced cooling requirements.

TDD series capacitors are uniquely designed for high energy density and low ESR, providing small size, high power and less heat generation than other capacitor technologies. With the goal to provide higher specific power and reduced cooling requirements, the TDD series was developed by Evans in concert with a phased array radar development at development effort at a major defense contractor.



TDD2080602SM01

80V * 6,000 μ F * 0.027 Ω * <16cc



TDD4080123

80V * 12,000µF * 0.015Ω * <25cc

The unique internal construction of the TDD design reduced the already low ESR of the previous EVANSCAPS model by 50%, resulting in faster rise times and greatly reduced cooling requirements.

The TDD series has now been expanded into four different case sizes to provide a wide a wide capacitance range with 10V to 125V operation. The DLA (DSCC) has issued dwg #15010 for the TDD series Hybrid Capacitors.

EVANSCAPS unique chemistry and construction provides the low ESR and high power density for high current pulse power in LASER drivers or phased array radars, as well as the highest available energy density for power interruption back up in avionics or subsystems. EVANSCAPS save space, weight and power (SWAP) over other capacitor technologies. EVANSCAPS are available in a very wide range of ratings in voltages from 10V to 125V. They are not cycle limited and can provide very high current discharge.

Evans Capacitor manufactures high energy density capacitors for demanding defense and aerospace applications, including phased array radar, laser targeting and power hold up, where size, weight, and reliability are the major considerations. Evans' production facility in East Providence, RI, follows stringent guidelines for quality and performance and is ISO 9001:2008 and AS9100 certified. Hybrid Capacitors are commodity dual use EAR-99 for export purposes. Evans is ITAR registered.

For more information please see:
<http://www.evanscap.com/hybrid.htm>
http://www.evanscap.com/TDD_product_page.html

For questions or to request a quote...
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