

# DLA 04051 Series of DLA-Approved Polymer Capacitors for Military and Aerospace Applications Delivers Ultra Low ESR, Capacitance Range of 4.7 $\mu\text{F}$ to 680 $\mu\text{F}$ , and Voltage Ratings Up to 63 V

## Product Benefits:

- Ultra low ESR down to 25 m $\Omega$
- Wide capacitance range from 4.7  $\mu\text{F}$  to 680  $\mu\text{F}$
- Support voltage ratings up to 63 V
- Tested for long term reliability, validated through 2000 hours of testing at 125 °C
- Robust mechanical reliability
  - Shock resistance up to 500g
  - Vibration resistance meeting MIL-STD-202-204 Level D
  - Withstand 10 thermal shock cycles per MIL-STD-202-107



## Market Applications:

- Power supplies, radios, radars, transponders, and energy storage in AMS systems

## The News:

Vishay Intertechnology announces the release of its new DLA 04051 series of vPolyTan™ polymer surface-mount chip capacitors. These capacitors are designed for high reliability applications in the aerospace, military, and space (AMS) markets, meeting the latest Defense Logistics Agency (DLA) 04051 military specifications.

- DLA 04051 series devices offer significantly lower ESR than traditional tantalum capacitors
- The devices serve as a true second source to Yageo / Kemet offerings, ensuring compatibility and reliability for critical military and aerospace systems

## The Key Specifications:

- ESR at +25 °C, 100 kHz: as low as 25 m $\Omega$
- Capacitance: 4.7  $\mu\text{F}$  to 680  $\mu\text{F}$
- Capacitance tolerance:  $\pm 10\%$ ,  $\pm 20\%$
- Voltage ratings: 2.5 V to 63 V
- Operating temperature: -55 °C to +125 °C



## NEW PRODUCT INFORMATION

**Product Group:** Vishay, Tantalum Polymer Capacitors / **October 2025**



### Availability:

Samples and production quantities of the DLA 04051 series are available now, with lead times of 35 weeks.

To access the product datasheet on the Vishay Website, go to

<http://www.vishay.com/ppg?40281> (DLA 04051)

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