

ISSUE: [October 2026](#)

## ***105°C Al Electrolytics Offer High Capacitance Density Where 125°C Is Not Needed***

[Knowles'](#) Cornell Dubilier brand is now capable of producing high-density, low-profile Flatpack capacitors at 105°C. Building on the existing MLPS and MLSG series of capacitors rated for 85°C and 125°C respectively, the CLS Flatpack aluminum electrolytic capacitors deliver enhanced reliability, achieving full endurance testing of 10,000 hours at 105°C. This level of consistency and reliability is essential for high-density commercial power supplies, military-grade systems, and mission-critical equipment (see the figure).

Backed by 25 years of experience in military electronics, Type CLS, MLPS, and MLSG Flatpack capacitors deliver exceptional durability and performance in extreme environments. With voltage ratings up to 300 V and capacitance values as high as 83,000  $\mu\text{F}$ , these capacitors are specifically designed for demanding applications. Their rugged construction ensures reliable operation under vibration, shock, and high ripple currents.

With a broad selection of low-profile stainless steel case sizes and multiple mounting options, engineers can easily integrate bulk capacitance into a single compact unit, reducing the number of PCB connection points and enhancing overall design reliability. For more information, see the CLS Flatpack aluminum electrolytic capacitors [page](#).



*Figure. "The introduction of 105°C-rated Flatpack capacitors expands our lineup with a stainless-steel solution that delivers better thermal dissipation for higher efficiency, improved performance, and longer lifespan," said Grayson Jacoway, product line manager, Aluminum Electrolytics & Polymer Aluminum Electrolytic Capacitors at Knowles. "In applications like military-grade radar systems or commercial aircraft power supplies, engineers often need components that deliver high capacitance density in a compact footprint without requiring ratings up to 125°C."*