

# CDE AT A GLANCE

## Capacitors for Military/Aerospace Applications

Cornell Dubilier Electronics excels with capacitor technology to meet the demanding requirements for military and aerospace applications. Our capacitors are used extensively in power supplies, inverters and communication systems for commercial and military aircraft and sea-going vessels. Ground based applications include radar systems, two-way mobile radios and DC link for inverters and power supplies used in military trucks and tanks. CDE has a full range of testing capabilities per MIL STD 202 requirements.



## Type MLP and MLS Flatpack



The MLP's high energy storage and box shape make it perfect for voltage hold up or filtering in military SEM-E modules, telecom circuit packs and computer cards. The MLP delivers up to 20 joules of energy storage in a 1/2" height with 50 years life at 45 °C. Housed in a stainless case, type MLS extends the performance of MLP from a max operating temperature of 85°C to 125°C with 100 year life.

- **DSCC Drawings 05018, 05019**
- **Low Profile 1/2" Height**
- **Near Hermetic Welded Seal for Long Life**
- **MLP and MLS: 25 Year Shelf Life**
- **MLP: 50 Year Life, MLS: 100 Year Life**
- **Withstand > 80,000 Ft Altitude**

Learn more – <http://www.cde.com/catalog/alum/#flatpack>

## Military Grade Aluminum Electrolytics



Types 101C and 300 are ideal for high-ripple current military applications that need low temperature performance to -55°C.

- **Power Holdup**
- **Phased Array Radar Antenna**
- **Military Radio**
- **Avionic Display and Instrumentation**
- **Laser Applications**

Learn more - <http://www.cde.com/catalog/alum/>

## Power Film Capacitors



Film capacitors are used for filtering in military power supplies and as the DC-link in power inverter systems.

- **Custom Packages**
- **Low ESR, High Ripple Current**
- **High Reliability, Long Life**
- **High Shock and Vibration Withstand**

Learn more – <http://www.cde.com/design/film>

## RF Mica



For applications requiring stable performance at radio frequencies over a wide range of operating conditions, mica dielectric is simply the best dielectric choice. Available in both radial dipped packages and SMT, RF Mica capacitors are used extensively in:

- **Two-Way Mobile Radios**
- **Communications for Avionics and Shipboard**
- **Power Supplies for Radar**

Learn more – <http://www.cde.com/catalog/mica/#chip>



**CORNELL  
DUBILIER**

Capacitor Solutions for Power Electronics

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

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# KEY MARKETS FOR CDE CAPACITORS



ALUMINUM ELECTROLYTICS											DC FILM			MICA			OTHER TYPES			
Screw Terminal	Snap Mounts	Strobe Alum	Photoflash	MLP / MLS	Flatpack Alum	Plug-In Alum	Leaded Alum	SMT Aluminum	Aluminum Polymer	Non Polar Alum	SMT Film	Leaded Film	Power Film	IGBT Snubbers	Mica	Xmitting Mica	Clad Mica	SMT Mica	AC Oils	SCR Commutation

## MILITARY

Radar	◆			◆	◆								◆	◆	◆					
Aviation				◆									◆	◆						
Vehicles				◆									◆	◆						
Missile Guidance System																				
Two-Way Mobile Radios																◆	◆	◆		

## POWER SUPPLIES & HOLDUP

UPS	◆	◆				◆							◆	◆	◆	◆				◆
SMPS			◆				◆						◆	◆						
Flywheel Storage	◆	◆											◆	◆	◆					
Battery Chargers	◆																			◆
Ferroresonant Power Supplies																				◆
Brick Inverters/Converters								◆	◆		◆									

## COMMUNICATIONS

Audio Amplifiers		◆					◆				◆	◆			◆					
Avionics				◆													◆			
Two Way Mobile Radios															◆		◆	◆		

## ELECTRIC VEHICLES

Military Trucks and Tanks				◆									◆	◆						
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## AVIATION

Runway Lighting			◆																	◆
Wingtip Lighting			◆																	
Bus Link Capacitor												◆	◆							
Voice Box Recorder				◆																
Power Supply				◆	◆															
Igniters																				