



# Hybrid and Electric Defense Vehicles

## High Power and High Energy Capacitors

The Capacitance Company  
**KEMET**  
CHARGED.®

### Why Choose KEMET

KEMET applies world-class service and quality to deliver industry-leading, high performance capacitance solutions worldwide. With 95% of possible dielectric solutions, KEMET offers the world's most complete line of surface mount and through-hole capacitor technologies across tantalum, ceramic, film, aluminum and paper dielectrics. One world. One KEMET.

### Features & Benefits

- Long life at high voltage and ambient temperature
- Standard, optimized and custom film and electrolytic designs
- New film metallization configuration with plastic or metallic housing sealed by epoxy or polyurethane resins
- New production process for thermal treatment

### Product Checklist

- What is the end product application?
- What is the expected annual volume?
- What is the needed capacitance value?
- Is it fixed or dependent on the allowed ripple current?
- What is the ambient temperature profile?
- What is the requirement for expected life?
- Is there cooling? What kind?
- What is the DC voltage?
- What is the ripple current and frequency?
- Is the ripple current steady-state or intermittent?

**For more information, samples and engineering kits, please visit us at [www.kemet.com](http://www.kemet.com) or call 1.877.myKEMET.**

### Programs Supported

- Hybrid and electric defense vehicles
- AC motor drives for motion control (aircraft systems, defense apparatus)

### KEMET Products


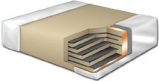
Product Family	KEMET Series	Form
<b>DC Link</b>		
Aluminum Electrolytic	PEG124 PEG225 PEG226 Long life/ high ripple ALS and ALC series	Axial 
		Screw Terminal 
		Snap-In 
Wound (500 – 1,200 VDC, PP or PET) or Stacked (50 – 500 VDC, PP) Film	C4AE C4DE C44U	PCB Box Mount, Screw Terminal Can 
		Custom 
Tantalum, Hi-Rel COTS	T493 T497 T513	Surface Mount 
Tantalum, Hi-Rel Polymer COTS	T540 T541	Surface Mount 
Tantalum, Polymer Herm Seal	T550	Hermetic Seal Through-Hole 



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Product Family	KEMET Series	Form
Ceramics, KPS	Standard EIA case sizes (1210-2220), 1-2 chip stacks	Surface Mount 
Ceramics, High Temperature and High Voltage Products	High temperature 200°C COG, HT/ HP HV Series ACR/ ACA ARR/ ARA	Surface Mount  Through-Hole 