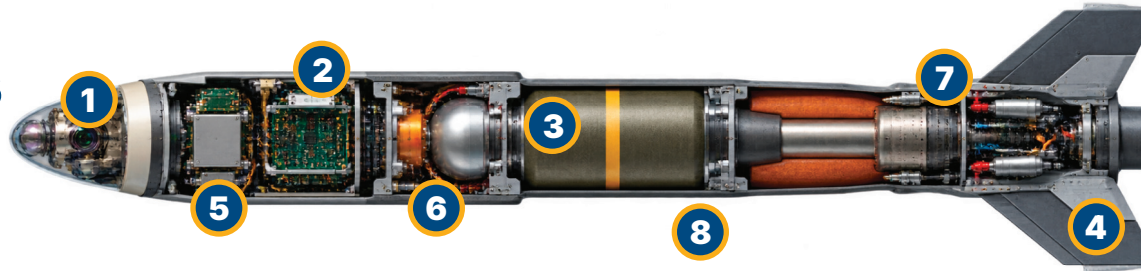


Missile Systems



Technology Key

Evans: Hybrid Wet Tantalum
Paktron: Multilayer Polymer Film (stacked)
UTC: High-reliability Ceramic
Eulex: RF & High-frequency Ceramic
evans-group.com

For illustrative purposes only. System configurations and applications vary. Subsystem locations shown are representative and may vary by platform configuration. Product placement identifies potential areas of applicability and does not imply that Evans Group supplies, is qualified on, or is installed on every platform or subsystem shown.

1. Seeker & Target Acquisition



CAPACITOR FUNCTIONS

- RF/EO signal conditioning
- RF matching & tuning
- DC blocking & coupling
- High-frequency bypass
- Power-supply filtering
- Sensor pulse support

BEST FIT TECHNOLOGIES

Evans: Compact energy storage and hold-up for seeker electronics

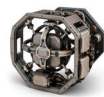
Paktron: Low-ESR power-supply filtering and ripple suppression

UTC: Low-ESL decoupling, filtering, and high-voltage support

Eulex: Low-loss RF matching, coupling, DC blocking, and bypass



2. Guidance, Navigation & Control



CAPACITOR FUNCTIONS

- IMU/GPS processing
- Processor/FPGA decoupling
- Precision analog filtering
- Timing/reference stability
- Power hold-up
- Noise suppression

BEST FIT TECHNOLOGIES

Evans: Bulk energy storage and hold-up for guidance electronics

Paktron: Low-ESR converter filtering and ripple suppression

UTC: Low-ESL decoupling, precision filtering, and reference stability



3. Fuze, Safety & Arming



CAPACITOR FUNCTIONS

- Arming-logic filtering
- Timing & sensing
- Initiation-energy storage
- Controlled pulse discharge
- High-voltage storage
- Transient suppression

BEST FIT TECHNOLOGIES

Evans: Rugged energy storage and hold-up for fuze electronics

Paktron: Snubbing and filtering in firing and protection circuits

UTC: High-voltage pulse capacitors for arming and initiation circuits



4. Flight Controls & Actuation



CAPACITOR FUNCTIONS

- Fin/servo actuation
- Solenoid-drive filtering
- Motor-drive filtering
- Pulse-current support
- Position sensing
- Shock/vibration resilience

BEST FIT TECHNOLOGIES

Evans: Low ESR energy storage for actuator loads

Paktron: Motor-drive filtering, snubbing, and ripple suppression

UTC: Decoupling and filtering for actuator controls in harsh environments



5. Communications, Telemetry & Datalink



CAPACITOR FUNCTIONS

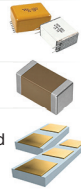
- RF filtering
- Impedance matching
- DC blocking & coupling
- Transmitter power stability
- Interface filtering
- Signal integrity

BEST FIT TECHNOLOGIES

Paktron: Low-ESR transmitter power filtering and snubbing

UTC: Decoupling and signal-interface filtering

Eulex: RF matching, coupling, DC blocking, and high-frequency filtering



6. Power Conversion & Distribution



CAPACITOR FUNCTIONS

- Battery-input filtering
- DC/DC converter filtering
- Bulk energy storage
- Power hold-up
- Ripple suppression
- Inrush/load-step support

BEST FIT TECHNOLOGIES

Evans: Power-dense energy storage and power hold-up

Paktron: Low-ESR input/output filtering, snubbing, and DC-bus stabilization

UTC: Point-of-load decoupling and high-frequency converter filtering



7. Propulsion, Ignition & Motor Control



CAPACITOR FUNCTIONS

- Ignition-power support
- Motor-control filtering
- Actuator-drive filtering
- High-temperature operation
- Shock/vibration stability
- Transient suppression

BEST FIT TECHNOLOGIES

Evans: Energy storage and pulse support for ignition and control power

Paktron: Snubbing and filtering for ignition and motor-control circuits

UTC: Select high-temperature, high-voltage ceramics for control and ignition circuits



8. Warhead Initiation & Pulse Power



CAPACITOR FUNCTIONS

- Firing-circuit energy storage
- Fast pulse discharge
- High-voltage operation
- Low-inductance delivery
- Bleed/discharge control
- Temperature stability

BEST FIT TECHNOLOGIES

Evans: High-power energy storage and pulse delivery

Paktron: High-dv/dt pulse support and snubbing

UTC: High-voltage pulse-energy ceramics for single- and multi-pulse firing



THE EVANS GROUP ADVANTAGE



Compact Energy Storage
High energy density, significant SWaP savings, and minimized voltage droop



High Reliability
Rugged performance in extreme environments



Pulse Delivery
Fast energy release for firing and actuation loads



Extreme Temperature Performance
Reliable operation from -55°C to 250°C