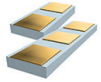
Functional Application Quick Guide

Evans GROUP
Application-First Capacitor Technologies
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What do you need the capacitor to do in the circuit?



Functional application	What the capacitor does	**Evans** Hybrid Wet Tantalum	**Paktron** Multilayer Polymer Film	**UTC** Ceramic	**Eulex** RF & High-frequency Ceramic
Hold-Up / Ride-Through	Temporary energy support during input interruption, dropout, or load transition.	●	●	●	
Energy Storage	Stores energy for later delivery, backup, or transient support.	●	●	●	
Pulse Power	Delivers a controlled burst of stored energy or supports a high-current pulse.	●	●	●	
Power Conversion	Supports switching stages, DC-link energy, ripple-current handling, and conversion efficiency.	●	●	●	●
EMI/RFI Filtering	Reduces conducted or radiated noise on power and signal paths.		●	●	●
RF Filtering	Selects, rejects, or shapes radio-frequency energy in a signal path.			●	●
RF Tuning / Matching	Optimizes impedance, resonance, bandwidth, and RF power transfer.			●	●
AC/RF Coupling & DC Blocking	Passes AC or RF while preventing unwanted DC from reaching the next circuit stage.		●	●	●
Decoupling / Bypassing	Provides local charge and a low-impedance path for high-frequency noise and transients.	●	●	●	●
Analog / Signal Filtering	Shapes signal bandwidth, removes noise, or stabilizes an analog signal path.		●		●
Timing / Sensing	Supports timing networks, sensing circuits, oscillators, and signal-reference functions.		●	●	●
Surge / Transient Protection	Absorbs, redirects, or limits the effect of fast voltage or current disturbances.	●	●	●	●
Motor Drive / Actuator Control	Supports switching, DC-link ripple, commutation, snubbing, and local control power.	●	●	●	●
High-Temperature Electronics	Maintains capacitance and electrical performance in elevated-temperature environments.	●	●	●	●
Harsh-Environment Electronics	Supports reliability in vibration, shock, pressure, radiation, humidity, or other demanding conditions.	●	●	●	●

Disclaimer: Preliminary application classification only—not a product specification or substitute for engineering review. Confirm final selection and requirements with Evans Group engineering.