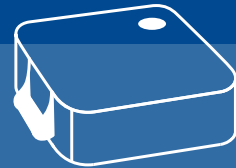
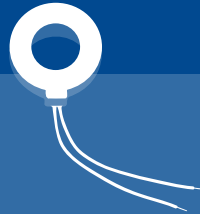
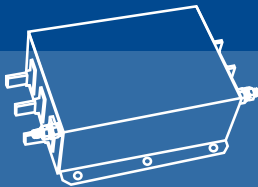
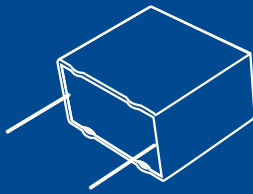
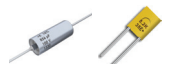
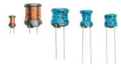
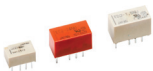

Capacitor and Electronic Component Product Overview



CAPACITORS

	Technology	Advantages
Aluminum Electrolytic Capacitors (www.kemet.com/aluminum)		
	Axial Leads and Radial Crown	- Long life in industrial applications - High vibration resistance - Operational up to 150 °C
	Screw Terminal and Snap-In	- Long life electrolyte for 550 V and 125 °C operation - Wide variety of terminal mounting options - Press-fit options available - Optimized designs available
	Single-Ended Radial and Surface Mount	- Popular surface mount and radial sizes - Available with up to 105 °C rating - Operational life up to 10,000 hours
	Conductive Polymer Single-Ended Radial and Surface Mount	- Solid polymer electrolyte - Stable ESR across temperature range - Very low ESR - High ripple current
Ceramic Capacitors (www.kemet.com/ceramic)		
	Surface Mount: C0G, X8L, X8R, X7R, X5R, Z5U, Y5V	- Industry-leading C0G - Board flex mitigation technologies - Wide high voltage product range (500 VDC to 10K VDC) - Up to 200 °C BME and 260 °C PME - Commercial, Industrial, Automotive, MIL-PRF and Space Grades available
	Chip Arrays, SnPb Terminations, Floating Electrode, Open Mode, Surface Mount Stacks, RF and Microwave	
	Leaded: C0G, X7R	
	BME and PME-based dielectrics	
	Based on high voltage and high temperature surface mount technologies	
	Disc: Safety/EMI Capacitors	
	Available with X1 and Y2 ratings	
Film Capacitors (www.kemet.com/film)		
	Leaded: Polypropylene, Polyester, PET	- Self-healing dielectrics - Segmented available on some series - AEC-Q200 available on some series - Safety ratings available on some series - High humidity available on some series - Multiple package options - Low ESR options available
	Designed for DC, AC, pulse, and safety/EMI applications	
	Power Applications: Paper, Film, Box, Can, Axial	
	Designed for motor run, transient suppression, and capacitive AC power supplies	
	Surface Mount: PET, PEN, and PPS dielectrics	
	Ultra-stable for filtering, coupling, and bulk capacitance applications	
Polymer Capacitors (www.kemet.com/polymer)		
	Polymer Electrolytic KO-CAP®: Industrial Grade, High Reliability/COTS, Automotive Grade	- High capacitance in a small size - Low ESR and surge current robust - Stable capacitance across time, temperature and voltage - Long life solid electrolytic design - High energy density with low height profile - Commercial, Industrial, Automotive and COTS Grades available
	Aluminum Polymer AO-CAP	
	Hermetically Sealed Axial	
Supercapacitors (www.kemet.com/supercapacitor)		
	Radial	- Maximum operating temperature of 85 °C - Wide operating voltage range - Enables backup times from seconds to minutes - Unique construction offers long operational life
	Surface Mount	
Tantalum MnO ₂ Capacitors (www.kemet.com/tantalum)		
	Standard, High Temperature, High Reliability/COTS, MIL-PRF CWR, Fused, Automotive Grade, Space Grade	- High capacitance in a small size - Surface mount stacks available - Low ESR and surge current robust - Operating temperature range up to 230 °C - Non-magnetic capability available on many SMD products - Commercial, Industrial, Automotive, MIL-PRF and Space Grades available
	Hermetically Sealed Axial, Radial Dipped, Molded Axial and Radial	

	Technology	Advantages
EMI Cores (www.kemet.com/emicores)		
	Round Cable: Bead, Toroidal and Snap-On Cores Flat Cable: Split and Solid Cores	- Broad frequency range - Meets IEC, CISPR and ECE EMI standards - Meets regional FCC, EN and VCCI standards
EMI Filters (www.kemet.com/emifilters)		
	General Purpose, IEC-Inlet/Power Entry Modules, Chassis Mount, Feed-Through Filters and Capacitors, Special Purpose	- Wide range available from one source - Accommodates broad variety of applications - Customized solutions available
Flex Suppressor Sheets (www.kemet.com/flexsuppressor)		
	Sheets: 0.03 – 1.0 mm thicknesses for permeabilities ranging from 20 – 130 μ	- High magnetic permeability - Low magnetic loss - Ultra-thin flexible sheets with self adhesive option - Effective from 1 MHz – 10 GHz - IR reflow capable versions available - Ideal for use in portable equipment
Inductors (www.kemet.com/inductors)		
	Common Mode AC Line Filters (Chokes) available in Toroidal and Rectangular Configurations	- High permeability core - Compact size, low profile and light weight
	Ferrite Inductors: Conformally Coated SBC Coils and SBCL Coils	- Nickel-zinc ferrite core - Magnetic nonshield type - Operating temperature range up to 105°C
	Metal Composite Inductors: Large Current	- Metal composite core - High permeability and low DC resistance - Reduced acoustic noise - Small packages with high saturation current
Piezoelectric Actuators (www.kemet.com/actuators)		
	Resin Coated, Encapsulated Metal Case	- Accurate nanometer positioning - High-speed response - High reliability and long operational life - Low power consumption - High electrostrictive factor
Miniature Signal Relays (www.kemet.com/signalrelays)		
	Surface Mount and Through-Hole	- Compact, lightweight, ultra-low profile - Low power consumption - Extremely durable plastic sealing - High withstanding voltage
Sensors (www.kemet.com/sensors)		
	Current Sensors: Alternating Current, Zero-Phase Current Transformers	- Compact and lightweight designs - High sensitivity - Flame retardancy available
	Thermal Sensors: Thermal Reed Switch, Thermal Guard	- Ideal for threshold thermal control - High reliability and long operational life - Sensing temperature range of +30°C to +130°C - Excellent temperature accuracy of $\pm 2.5^\circ\text{C}$ (TRS) - High-speed switching - Excellent environmental durability - Screw clamp for easy installation - No control circuit required
Varistors (www.kemet.com/varistors)		
	Surface Mount, Dual Function	- Wide range of surface mount sizes available - Up to 150°C operating temperature range - Automotive and Industrial Grade - RoHS, GADSL, REACH and AEC-Q200



Capacitor Simulation Tool
ksim.kemet.com



Made for Engineers by Engineers
engineeringcenter.com



Catalogs and Technical Data



3D Models, Specifications, and Search
search.kemet.com



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Hong Kong	Macedonia	South Korea	