

PRODUCT OVERVIEW

August 2020 Edition

KEMET
a YAGEO company

Aluminum Electrolytic Capacitors



Axial Leads and Radial Crown

- Extremely high ripple current capability • Outstanding ESR stability over life • High vibration resistance • Maximum operating temperature up to 165°C



Screw Terminal, Snap-In and Press-Fit

- Long life and high reliability, up 125°C and up 630V • Wide variety of terminal mounting options including no solder Press-Fit • Excellent surge voltage and high ripple current capability • Optimized design available



Single-Ended Radial and Surface Mount

- Available up to 125°C and up to 450V • Operational life up to 12,000 hours • Multiple packaging and lead options available



Rectangular Aluminum Electrolytic

- Rectangular shape for good volumetric efficiency and modular stacking
- Extremely robust with stainless steel casing • Excellent vibration capability up to 80 g • 105°C and 125°C Series available with voltages up to 275V – no derating required • Limited availability regionally – contact your local KEMET sales contact

Aluminum Polymer



Conductive Polymer Single-Ended Radial and Surface Mount

- Available up to 125°C and up to 450V • Operational life up to 12,000 hours
- Multiple packaging and lead options available



Aluminum Polymer AO-CAP

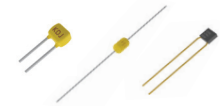
Ceramic Capacitors



Surface Mount: COG, X8L, X8R, X7R, X5R, Z5U, Y5V, U2J

Chip Arrays, SnPb Terminations, Floating Electrode, Open Mode, Surface Mount Stacks, RF and Microwave, and DC Link

- BME and PME based dielectrics • Board flex mitigation technologies (Flexible termination, Open Mode, Floating Electrode) • Wide voltage range (6.3 VDC to 10,000 VDC) • High Temperature up to 200°C BME and 260°C PME
- Termination Finishes: 100%Sn, SnPb & Au • Wide Range of Grades: Commercial, Automotive, COTS, Hi Reliability, Defense and Aerospace, Medical and Custom grades available • Wide Range of applications: Decoupling, Filtering, Snubber, Resonant, DC-LINK, Pulse, etc.



Leaded: COG, X7R
BME and PME-based dielectrics
Based on high voltage and high temperature surface mount technologies



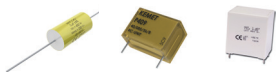
Disc: Safety/EMI capacitors
Available with X1 and Y2 ratings

Film Capacitors



Leaded Series: Polypropylene, Polyester (PET, PEN), PPS, Paper dielectric
Decoupling, bulk, DC and AC filter, resonant, snubber, and EMI suppression

- Self-healing dielectrics • High stability in temperature and frequency
- Safety ratings available • Harsh Environment Solutions available
- Extended lifetime and reliability • Low ESR and high dV/dt
- High voltage and ripple current

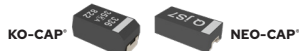


Power Series: Polypropylene film on plastic box, and plastic and aluminum canister
DC-Link, DC and AC filter, snubber, resonant, motor-run, PFC



Surface Mount: Polyester (PET, PEN), PPS, and Paper dielectrics, Coupling, Decoupling, bulk, DC and AC filter, snubber, EMI suppression

Polymer Capacitors



Polymer Electrolytic KO-CAP®: Industrial, Automotive, High Reliability Alternative/Space Grades

- 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 space grades available



Hermetic

Hermetically Sealed Axial



Stacks

Tantalum Stack Polymer



Radial Assemblies

Supercapacitors



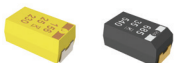
Radial

- 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 MnO2 Capacitors



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

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	TECHNOLOGY	CHARACTERISTICS
Noise     	AC Line Filters: Common, Differential and Dual Mode Chokes	<ul style="list-style-type: none"> • Ferrite materials developed and produced in-house • New focus on high temperature • High permeability ferrite cores • High performance nanocrystal cores • Broad range of solutions for low, middle and high frequencies
	DC Line Filters and EMI Cores	
	EMI-RFI Filters	<ul style="list-style-type: none"> • Customized solutions available
	FLEX SUPPRESSOR®: Noise Suppression Sheets, Noise Suppression Tape and Magnetic Sheets for RFID	<ul style="list-style-type: none"> • High permeability and performance • UL94 V-0 Red Phosphorous and halogen-free version available
	Chambers and Test Services	<ul style="list-style-type: none"> • EMC equipment, measurement and consulting
Power      	Automotive Reactors	<ul style="list-style-type: none"> • Small leakage flux and excellent heat dissipation • Large range of shapes available due to inject molding process
	Surface Mount Power Inductors	<ul style="list-style-type: none"> • High permeability and low DC resistance
	Through-Hole Power Inductors	<ul style="list-style-type: none"> • Wide range of different products
	WPT Ferrite Tiles	<ul style="list-style-type: none"> • Ferrite materials developed and produced in-house • Provides the best charging efficiency for WPT system
	Rare Earth Magnets and FeCrCo Magnets	<ul style="list-style-type: none"> • Magnets developed and produced in-house • High performance at 150°C and higher, without using heavy rare earth
	NiTi Alloy	<ul style="list-style-type: none"> • Shape memory alloy • High reliability due to proprietary technology
	Device  	Electromagnets
NFC Antennas		
Piezo Ceramics  	Piezo Material	<ul style="list-style-type: none"> • Wide range of product offerings • Customized solutions available
	Piezo Actuators & Benders (Bimorph)	<ul style="list-style-type: none"> • High performance due to proprietary technology • Long operational life • Customized solutions available
Sensors     	Current Sensors	<ul style="list-style-type: none"> • Compact and lightweight designs • Stable temperature characteristic
	Thermal Reed Switch & Thermal Guard	<ul style="list-style-type: none"> • High reliability and long operational life due to proprietary technology • Excellent environmental durability • Easy installation and no control circuit required
	Pyroelectric Human Proximity, Motion & Gesture Sensors	<ul style="list-style-type: none"> • Low profile and reflow capable • Less design noise due to proprietary technology • Multiple sensor pixels detect up-down and left-right directions • I2C communication
	Pyroelectric Flame, Gas, Organic Compounds and General IR Spectroscopy Sensors	<ul style="list-style-type: none"> • Analog (TO39) or digital (I2C) • Smallest and most compact SMD sized IR sensor (5.65 x 3.70 x 1.55 mm) • No degradation over time or under exposure to higher temperature • Modules and evaluation kits also available
	Vibration Sensors	<ul style="list-style-type: none"> • High sensitivity in wide frequency range • Compact and low profile • Waterproof and oil-resistant • Evaluation kits also available
Miniature Signal Relays 	Surface Mount and Through-Hole	<ul style="list-style-type: none"> • Compact, lightweight, ultra-low profile • Low power consumption • High reliability • Stable, competitive leadtime
Varistors 	Surface Mount, Dual Function	<ul style="list-style-type: none"> • Wide range of surface mount sizes available • Up to 150°C operating temperature range • Automotive and industrial grade • RoHS, GADSL, REACH