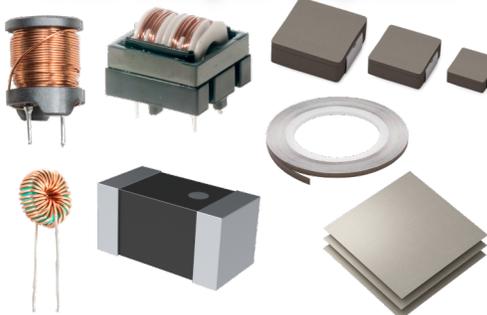
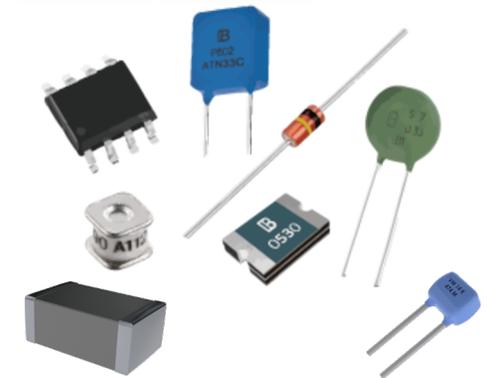


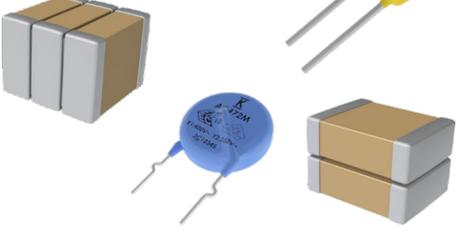
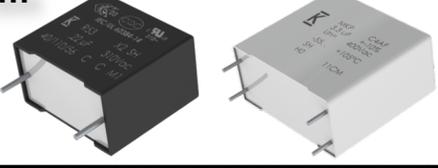
# Product Overview

## February 2023 Edition

Technology	Application
<p><b>Power &amp; Signal Magnetics</b></p>  <p>Common, Differential, &amp; Dual Mode Chokes &amp; Filters</p> <p>Power, Isolation, &amp; Current-Sense Transformers</p> <p>Surface Mount, Through-Hole, and SMT RF Inductors</p> <p>Ferrite Beads, Cores, &amp; Charging Tiles</p> <p>Flex Suppressor® Sheets &amp; Tape</p> <p>Signal Magnetics</p>	<p>Audio-visual equipment, home appliances, power supplies, office automation equipment, digital equipment</p> <p>Switching DC-DC power supplies, notebook computers, tablets, embedded computer systems, servers &amp; storage</p> <p>Noise suppression caused by casing, cross talk interference, radiation noise, and noise caused by LSI &amp; IC</p> <p>Portable digital equipment, tablets, home appliances, embedded systems</p> <p>Wireless Charging Applications</p>
<p><b>Circuit Protection</b></p>  <p>Transient Voltage Suppressors (TVS)</p> <p>Electrostatic Discharge Devices (ESD)</p> <p>Polymeric Positive Temperature Coefficient Thermistors (PPTC) &amp; Negative Temperature Coefficient Thermistors (NTC)</p> <p>Spark Gap Protections (SGP) &amp; Gas Discharge Tubes (GDT)</p> <p>Thyristor Surge Suppressors (TSS)</p> <p>Varistors</p>	<p>I/O interface, AC/DC power supplies, low frequency signal lines</p> <p>Mobile devices, wireless bus protection, server systems, communication equipment</p> <p>USB hubs, motherboard protection, game console port protection, general electronics</p> <p>Power supplies, motor spark eliminator, high frequency signal transformers, relay switching</p> <p>Monitors, power supplies, communication equipment, temperature sensitive devices</p> <p>Transistor, diode, IC semiconductor protection, surge protection in consumer, industrial, and electronic home appliances</p>
<p><b>Resistors</b></p>  <p>Through-Hole &amp; Surface Mount</p> <p>Thick &amp; Thin Film Technologies</p>	<p>Consumer, industrial, and automotive applications, current sensing technology for smart phones, batteries telecommunications, power supplies, converters, general purpose applications</p>
<p><b>Piezoelectric Devices</b></p>  <p>Transducers</p> <p>Piezo Actuators &amp; Benders (Bimorph)</p> <p>Haptic Modules</p>	<p>Cleaning equipment, ultrasonic treatment machines, plastic welding equipment</p> <p>Smartphone receiver, speaker applications, table steppers, linear motors, precision flow controllers</p>
<p><b>Sensors</b></p>  <p>Current Sensors</p> <p>Thermal Reed Switch &amp; Thermal Guard</p> <p>Pyroelectric Human Proximity, Motion &amp; Gesture Control</p> <p>Pyroelectric Flame, Gas, Organic Compounds &amp; General IR Spectroscopy Sensors</p> <p>Vibration Sensors</p> <p>Rogowski Coils &amp; Assemblies</p>	<p>Overcurrent detection in microcontroller equipment, refrigeration, servo motors, inverters, UPS and SMPS</p> <p>Atmospheric temperature detection of power transistors, power modules, room heaters, amplifiers, motors and other general appliances</p> <p>Contactless switching, office automation, home appliances, lighting, PC monitors, &amp; air conditioners</p> <p>Applications include gas flues, HVAC systems, industrial process systems, environmental monitoring, industrial processes and safety</p> <p>Abnormal vibration detection and condition monitoring of industrial motors, bearings and pumps</p>
<p><b>Wireless</b></p>  <p>Design, engineering, and production of antennas &amp; antenna modules for wireless devices</p> <p>Embedded, Internal, Vehicular, External, Outdoor Antenna types. RF Filters &amp; X2Y Capacitors</p>	<p>5G-FR1/LTE, CBRS, Wifi-6E, ISM, LMR, GPS, GNSS, Bediou &amp; more</p> <p>Applications requiring connectivity; mobile devices, wearables, Router/modem, Public Safety, DAS, IoT, &amp; Transportation</p>
<p><b>Connectors</b></p>  <p>Ethernet Modules, RJ45, RJ11, Fiber Optic, and USB Connectors</p> <p>Integrated Connector Modules</p>	<p>Devices that have input and output connectors, modems, networking systems</p>

# Product Overview

## January 2023 Edition

	Technology	Application
	Axial & Radial Crown; SMD & Leaded	Vibration and temperature resistant applications Automotive applications Smoothing, energy storage or pulse operation power supplies, frequency inverters, and welding equipment
	Screw Terminal, Snap-in & Press Fit	
	Rectangular Aluminum Electrolytic	
	Conductive Polymer Single-Ended Radial & Surface Mount	High vibration, lower profile, high altitude applications, and DC to DC Converters Mobile, automotive, and aircraft installations with extremely high demands
	Aluminum Polymer AO-Cap	
	Tantalum Stack Polymer	DC/DC Converters, audio/sound circuits, mobile phones, base stations, power supply inputs, WiFi Modules, portable electronics (SSD, HDD, notebook PCS, and displays) GPS navigation systems, telecommunications, high speed servers, analytical and test equipment.
	Polymer Electrolytic KO-Cap: Industrial, Automotive, High Reliability Alternative, Space	
	Hermetically Sealed Axial & SMD	
	Radial Assemblies	
	Surface Mount: C0G, U2J, X5R, X7R, X8G, X8L, X8R, Y5V, Z5U	Consumer electronics, Telecommunications, Data Processing, Automotive applications, DC-Link, Snubber, Bulk Capacitance  High voltage & high temperature options  Smaller case size options through YAGEO
	Chip Arrays, KONNEKT, Floating electrode, Open Mode, Stacks, RF, Microwave, KC-Link, Safety Rated SMD	
	Leaded: C0G, X7R	
	BME & PME-based Dielectrics Based on high voltage and high temperature technologies	
	Disc: Safety/EMI Capacitors Available with X1 & Y2 Ratings	
	Power: Polypropylene Film in Basic Box, plastic or Aluminum canister	EMI/RFI Suppression, AC Harmonic Filtering, DC-Link, Snubber Applications
	Leaded: Polypropylene, Polyester PET, PEN, PPS & Paper Dielectrics	
	Surface Mount: Polyester PET, PEN, PPS, & Paper Dielectrics	
	Surface Mount	Low voltage DC Holdup Applications, can be used as a secondary battery in some applications when used in a DC circuit such as an embedded microprocessor with flash memory, low current and automotive options available.
	Radial Pin, Molded, & Snap-In	
	Standard, High Temperature, High Reliability, COTS, MIL-PRF CWR, Fused, Automotive Grade, & Space Grade	Decoupling, filtering, DC/ DC Converters, portable electronics, and control units
	Hermetically Sealed Axial, Radial Dipped, Molded Axial & Radial	
	Surface Mount & Through-Hole	Electronic switching systems, PBX, Terminal equipment, telephone systems
	MEMOALLOY® Wire	For Medical Applications such as Guide wires, and stent grafts, and consumer applications  Large coercive force & high energy products
	Electromagnets	
	Permanent Magnets	



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