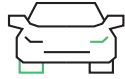


AVNET[®] ABACUS

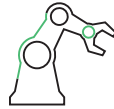
YAGEO GROUP

/ YAGEO GROUP
PRODUCT BROCHURE

CHIP RESISTORS



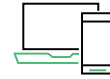
Automotive



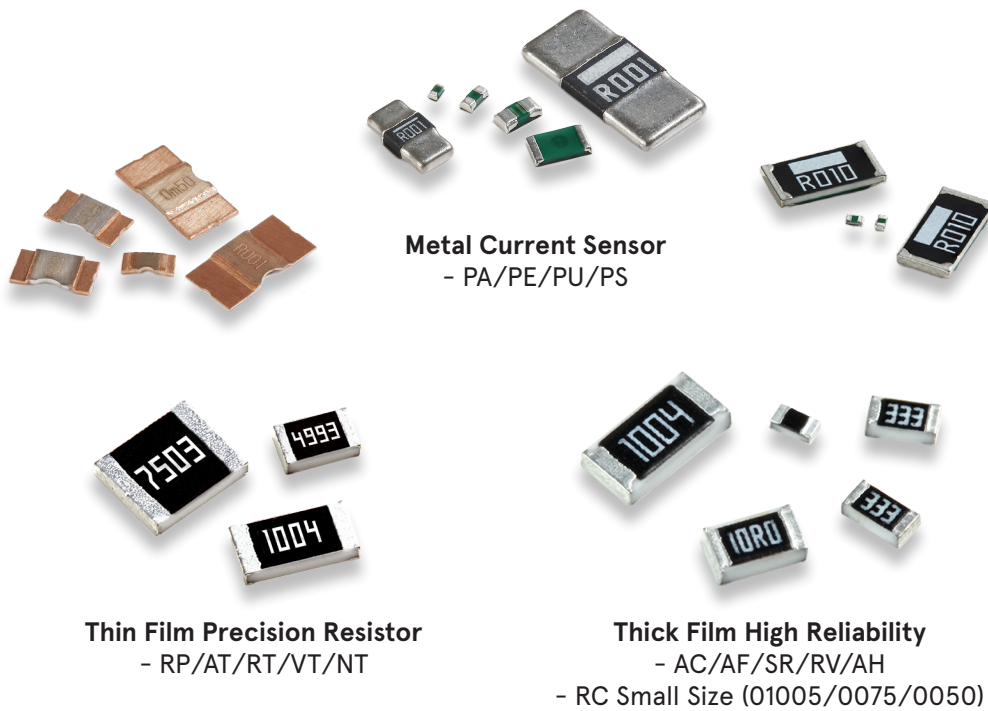
Industrial



Alternative Energy



Consumer Electronics



Metal Current Sensor
- PA/PE/PU/PS

Thin Film Precision Resistor
- RP/AT/RT/VT/NT

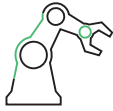
Thick Film High Reliability
- AC/AF/SR/RV/AH
- RC Small Size (01005/0075/0050)

- No.1 Resistors Market Leader
+30% World's Production
- 1st to launch metal current sensor 01005
- Obtains UL 2799A, the Highest Platinum Rating for Zero Waste to Landfill
- Sulfur Resistant & High Stability
- Sustainability Product, Lead Free Option
- AEC-Q200 qualified (For Automotive Grade)

CIRCUIT PROTECTION COMPONENTS



Automotive



Industrial



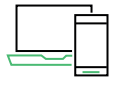
Alternative Energy



Telecom



Power



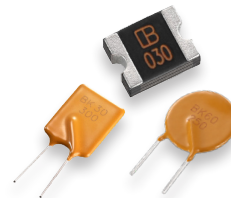
Consumer Electronics



Gas Discharge Tubes



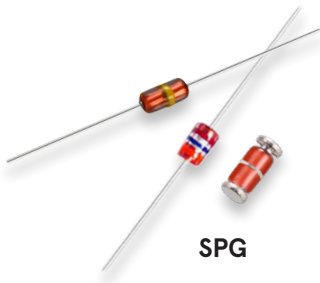
Chip Fuse



PPTC



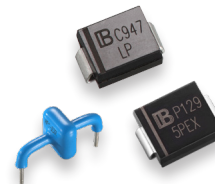
ESD



SPG



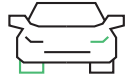
MOV / TMOV



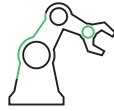
TVS Diodes

- Our wide product portfolio fulfills most customers needs, making us a top choice for your primary sourcing.
- Market leading at overcurrent and overvoltage protection feature.
- Fully vertically integrated semiconductor manufacturing process.

THROUGH HOLE RESISTORS



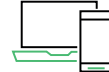
Automotive



Industrial



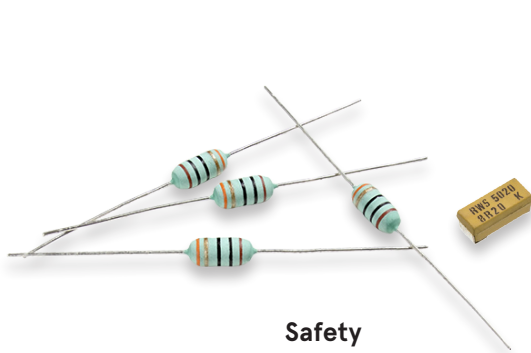
Alternative Energy



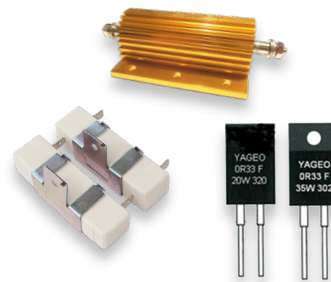
Consumer Electronics



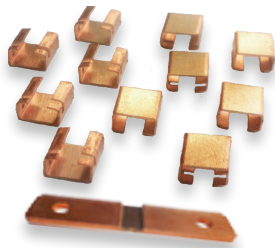
Power



Safety



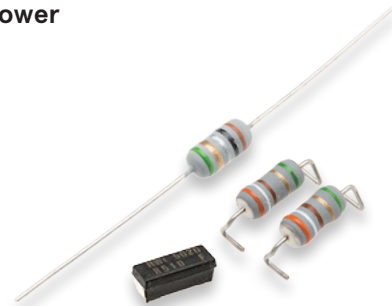
Power



Shunt Resistors



MELF



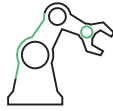
Pulse

- One of the major market providers
- 90 years of manufacturing experience in Through-hole resistors
- AEC-Q200 qualified (For Automotive Grade)
- IATF16949 certified
- UL, VDE certified

MLCC MULTILAYER CERAMIC CAPACITOR



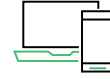
Automotive



Industrial



Communication



Consumer Electronics



High Voltage
- HV



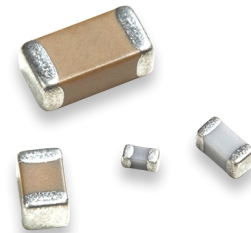
Soft Termination
- CS / AS



- High Capacitance & High Voltage
- HCV X7R
- High Capacitance
- HC



High Frequency
- CQ / AQ



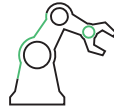
Automotive Grade
- AC

- Various case sizes from 01005 to 2220 (inch)
- High capacitances for Class I and Class II
- AEC-Q200 qualified for Automotive Grade
- Rated voltage up to 3KV

CERAMIC CAPACITORS



Automotive



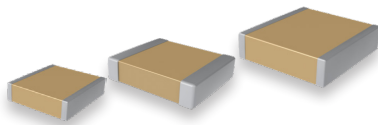
Industrial



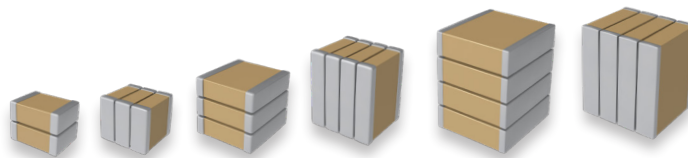
Communication



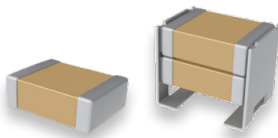
Power



KC-LINK™
For Fast Switching
Semiconductors



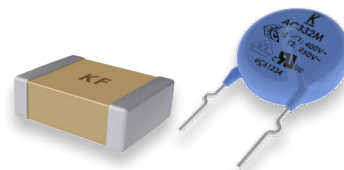
KONNEKT™
High-Efficiency and High-Density
Power Applications



Flex Mitigation
Flex Term, VW80808, Open
Mode, Floating Electrode, KPS



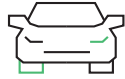
HiQ-CBR RF
Automotive Grade



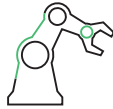
Safety Certified and AC Rated
SMD and Ledged

- Class I dielectrics C0G(NP0) and U2J
- High Voltage MLCC's rated ≥ 500 volts
- Commitment to large case size MLCC's from 0805 – 4540 (EIA)

POLYMER / TANTALUM / SUPERCAPACITORS



Automotive



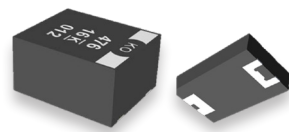
Industrial



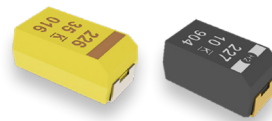
Communication



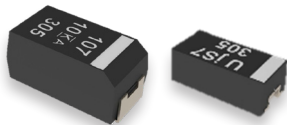
Power



High Energy Low profile
Polymer Tantalum



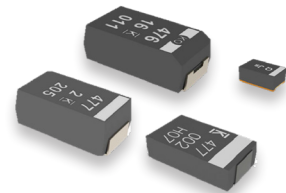
MnO2 Tantalum Capacitor



Auto Grade Polymer Tantalum



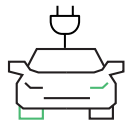
SuperCapacitors



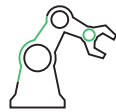
Commercial Grade Polymer

- No.1 Polymer Tantalum Market Leader +40% World's Production
- Vertically integrated supply chain
- Wide portfolio
- Leading Edge Technology
- 1st to market
- Customized solutions
- Fully covered market segments (Consumer to Space)
- Localized service and support
- Engaged with Top players in each segment

FILM CAPACITORS



Automotive
EV/HV & ADAS



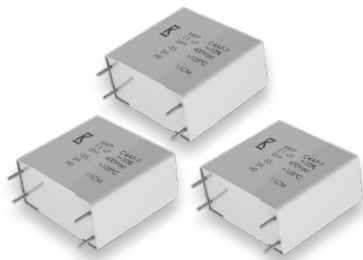
Industrial



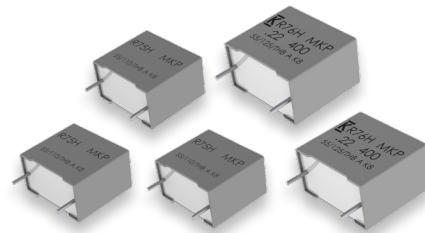
Power



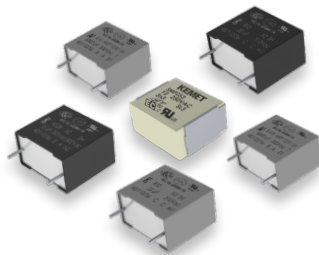
Alternative
Energy



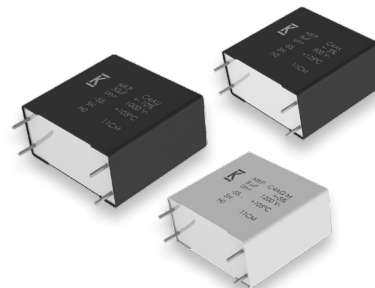
AC Filter



Pulse



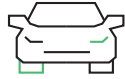
EMI Suppression



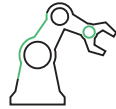
DC Link

- Self Healing Capability
- Miniaturization
- World 1st 135°C polypropylene film capacitor
- Withstanding Harsh Environmental Conditions
- Low ESL for high frequency
- High reliability with extended life
- AEC-Q200 compliant

ALUMINUM ELECTROLYTIC CAPACITORS



Automotive



Industrial



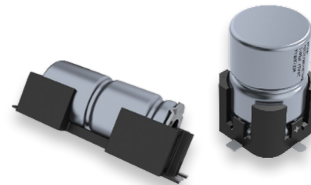
Alternative Energy



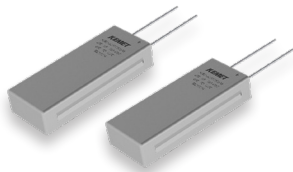
Power



Hybrid Axial capacitor



Axial SMD electrolytic capacitor



Rectangular electrolytic capacitor



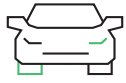
Snap In capacitor



Hybrid & Solid capacitor

- Leading global supplier of DC-Link for 48V MHEV and OBC for BEV
- 1st to market AEC-Q200 Aluminum Rectangular 450V capacitor
- Hybrid design, extremely high ripple current and low thermal resistance performance
- The first Axial & Radial Crown SMD on the market
- Friendly to base cooling design, flexible ways of installation
- Anti-vibration design, 20g
- Shortest LT with competitive price

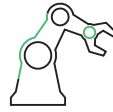
SENSORS & ACTUATORS



Automotive



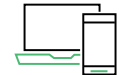
Power



Industrial



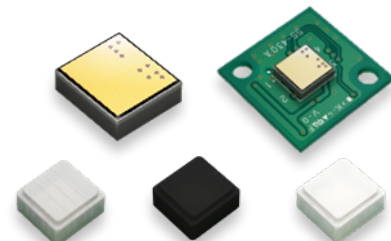
IOT



Consumer Electronics



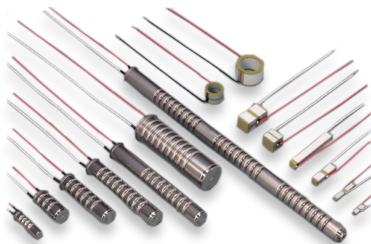
Current sensor



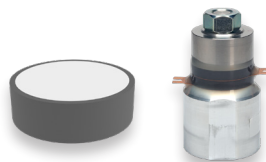
Proximity sensor



Vibration sensor



Multilayer Piezo Actuator



Piezo Transducer



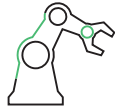
Thermal reed switch

- High sensitivity, fluxgate-based current sensor
- Ultra compact and low profile pyroelectric infrared sensors (5.0 x 4.8 x 1.7 mm)
- High sensitivity, built-in amplifier vibration sensor
- Highly reliable, precise temperature-sensitive switches for energy conservation and overheat protection
- High performance multilayer and single layer piezoelectric actuators and transducers

MAGNETICS



Automotive



Industrial



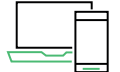
Alternative Energy



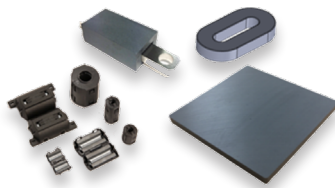
Medical



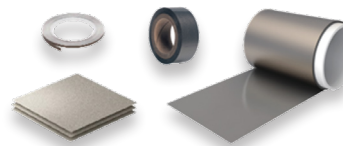
IOT



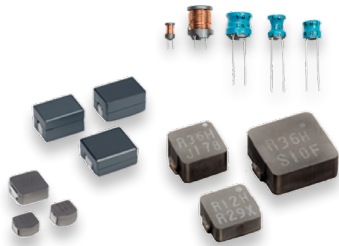
Consumer Electronics



EMI core / WPT ferrite tile



EMI absorber or RFID / NFC (FLEX SUPPRESSOR)



SMD / TH power inductor



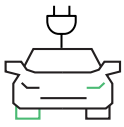
EMI-RFI filter



AC / DC choke coil

- Proprietary unique magnetic and metal materials
- First class automotive grade for high reliability and safety
- EMI absorbing solutions covering the whole frequency band up to the SHF (super high frequency) band
- High rated voltage AEC-Q200 choke coil, up to 1,000 V AC/DC
- +180°C or 50G vibration resistant power inductors
- Ultra compact and high-performance EMI-RFI filter

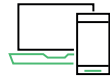
STANDARD POWER



Automotive
EV/HV & ADAS



Industrial



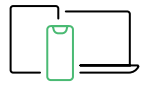
Consumer
Electronics



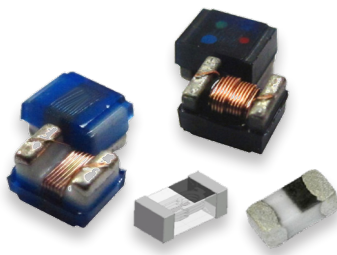
Telecom



Data



Portable
device



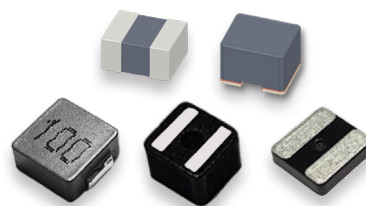
RF Signal Inductor



Wirewound Power Inductor



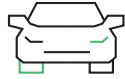
EMI filter



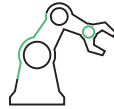
Molded Power Inductor

- No Physical air gap and zero core gap loss (Molded)
- High and Soft Saturation Current, High Power Density
- High insulation resistance, High breakdown voltage
- Higher Operating Temp and no Thermal Aging
- Cut off freq up to 6GHz (EMI filter)
- High impedance@Low freq - High freq (EMI filter)

SPECIALIZED POWER



Automotive



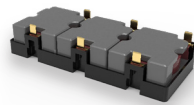
Industrial



Power



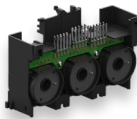
Medical



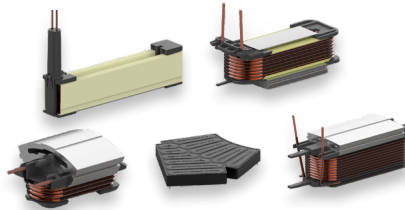
PFC - choke 3 phase



Current transformer



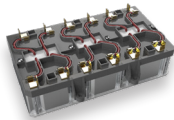
**CCT - combined
Current Transformer**



Motor coil



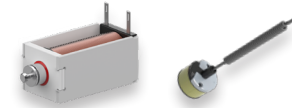
Rogowski coil



LLC transformer 3 phase



Flexible Rogowski coil



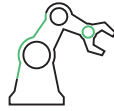
Solenoid

- PFC choke and LLC transformer for on board chargers up to 22kW
- CT, CCT and Rogowski coils for various measuring and billing applications such as smart grid and smart metering
- Motor coils for Hybrid cars, electric supercharger, linear motors for industrial and medical applications
- Solenoids for various automotive and industrial applications

SPECIALIZED POWER



Automotive



Industrial



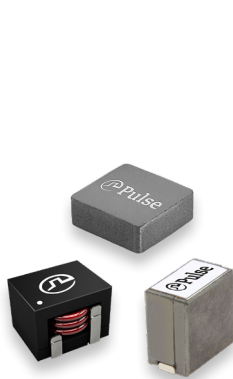
Communication



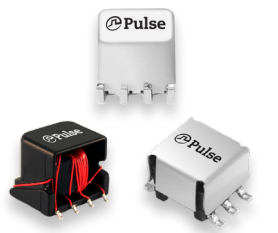
IOT



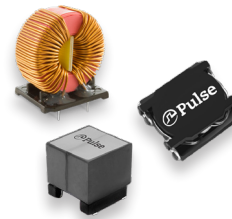
Computing



Power Inductors



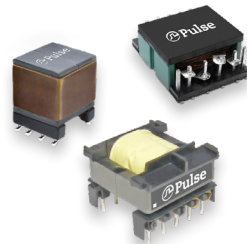
Isolation Transformers



Common Chokes



Custom Power Magnetics



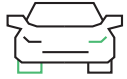
Power transformers



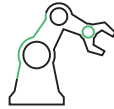
Current Sense Magnetics

- World's #3 in Inductors and Automotive Magnetic products
- Specialized and Custom Power Magnetics
- High Power Density and variable Mechanical Mounting
- Power bead inductors with High performance for Vcore power application
- IATF Catalogue products
- World's #3 in Inductors and Automotive Magnetic products

WIRED COMMUNICATIONS



Automotive



Industrial



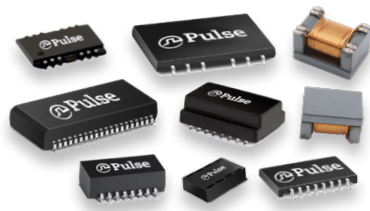
IOT



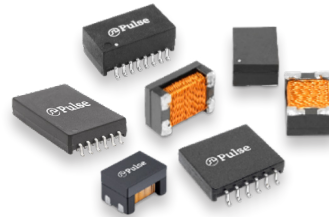
Communication



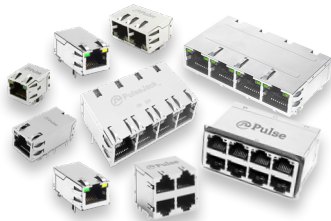
Computing



Discrete Communications
Magnetics LAN



Automotive Communication
Magnetics (BMS & IVN)



Integrated Connector
Modules (ICMs)



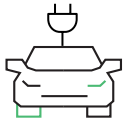
Connectors & Cages



Discrete Communications
Magnetics WAN

- Research, design and manufacture magnetic products and connectors used in through-wire communication systems to filter, transmit and isolate communication signals
- World's #1 in LAN Discrete Magnetic products
- Technology and Market leader in Integrated Connector
- Module Magnetic products (ICMs)
- Technology and Market leader in Automotive Magnetic products

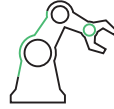
WIRELESS COMPONENTS



Automotive
EV/HV & ADAS



IOT



Industrial



Telecom



Communication



3D Antennas
LDS/LAP/FluidANT



Embedded Antennas
Ceramic/Helical/
FPC/Stamped



Vehicular
Antennas



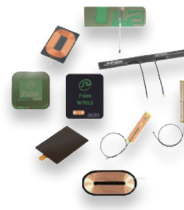
External/ In-Building
Antennas



LTCC based BPF, LPF, Balun,
Diplexer, Triplexer, Balanced
BPF, and Coupler



Outdoor
Antennas



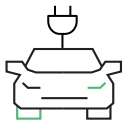
Internal Antennas
FPC/PCB/NFC/
WPC/LCP Antennas



Cable & Mounting
Solutions

- Wide range of antenna options including flexible printed circuit board (FPC), PCB, direct mount, magnetic mount
- Frequency Bands from 13.56MHz to 8500MHz
- WiFi, Bluetooth, BLE, UWB, Zigbee, MiMo, GNSS, LEO, LTE, 5G FR1
- IoT, SmartGrid, Meters, Remote Monitoring, Sensor Networks
- Customized solutions

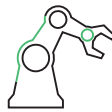
PT RTD SENSORS



Automotive
EV/HV & ADAS



IOT



Industrial



Telecom

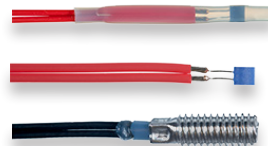


Communication

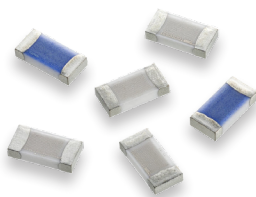
YAGEO
NEXENSOS



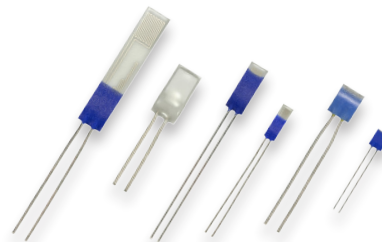
PCB



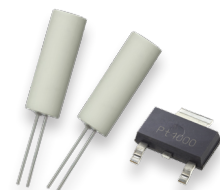
Sensor assemblies



SMD
(solderable/sinterable)



Sensor Elements with Wires



Ceramic housed &
SOT housed sensor

- Pt Temperature sensor pioneer since 1906, with over a century of experience and expertise.
- Global leader for platinum thin film technology
- High long term stability
- Interchangeability
- Broad temperature operating range
- Fast response time
- Automotive qualified products available
- Sensors engineered to custom applications

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