

Aluminum Electrolytic Capacitors



Hybrid Axial capacitor



Axial SMD electrolytic capacitor



Rectangular electrolytic capacitor



Snap In capacitor





Hybrid & Solid 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

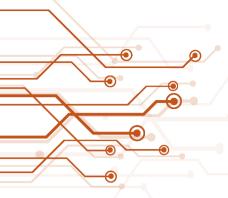












Chip Resistors





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)

- World's 1st with 30%[†] of global capacity
- 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



Gas Discharge Tubes



Chip Fuse



PPTC





ESD

MOV / TMOV



TVS Diodes

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









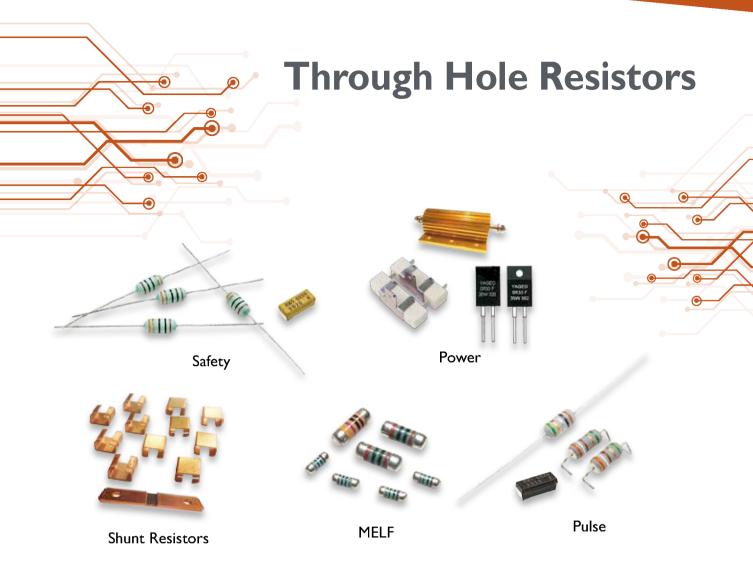


Telecom

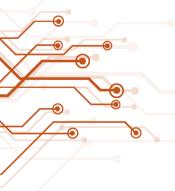








- One of the major market providers
- 3 factories in Asia and Europe
- 90 years of manufacturing experience in Through-hole resistors
- AEC-Q200 qualified (For Automotive Grade)
- IATF16949 certified
- UL, VDE certified















MLCC Multilayer **Ceramic Capacitors**



High Voltage - HV



High Frequency - CQ / AQ



Soft Termination - CS / AS





Automotive Grade - AC

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



- High capacitances for Class I and Class II
- Complete high frequency product range up to 150°C
- **AEC-Q200** qualified for Automotive Grade
- Rated voltage up to 3KV















Ceramic Capacitors



For Fast Switching Semiconductors



KONNEKT™
High-Efficiency and High-Density
Power Applications



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







- Class I dielectrics C0G(NP0) and U2J
- High Voltage MLCC's rated ≥ 500 volts
- Commitment to large case size MLCC'sfrom 0805 3640 (EIA)













Polymer / Tantalum / SuperCapacitors



High Energy Low profile Polymer Tantalum



MnO2 Tantalum Capacitor









SuperCapacitors



Commercial Grade Polymer

- Wide portfolio
- **Leading Edge Technology**
- Auto Grade 1st to market
- **Customizing solution**
- Fully covered market segments (Consumer to Space)
- Localized service and support
- **Enaged with Top players in each segment**















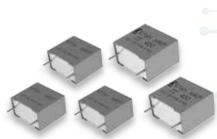






Film Capacitors









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









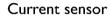




S&A of MSA



Human sensor









Vibration sensor

- High sensitivity, fluxgate-based current sensor
- High performance multilayer piezoelectric actuators
- Ultra compact and low profile pyroelectric infrared sensors (5.0 x 4.8 x 1.7 mm)
- High sensitivity, built-in amplifier vibration sensor













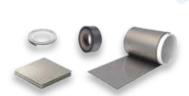




Magnet of MSA



EMI Core / WPT Ferrite Tiles



Absorber (FLEX-SUPPRESSOR)



SMD Power Inductor



EMI Filter



- Original unique magnetic materials
- First class Automotive grade safety, reliability
- Ultra-high frequency effect Absorber (upto SHF band)
- High rated voltage Choke Coil (up to 1,000V AC/DC)
- 50G vibration resistance Power Inductor
- Ultra compact and high-performance EMI Filter



















Standard Power



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)**



Automotive EV/HV & ADAS



Industrial



Electronics



Center



Telecom



device



Specialized Power



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



Power Inductors









Isolation Transformers

Common Chokes





Custom Power Magnetics







Power transformers

Current Sense Magnetics



- High Power Density and variable Mechanical Mounting
- Power bead inductors with High performance for Vcore power application
- **IATF** Catalogue products

















Wired Communications



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 #I in LAN Discrete Magnetic products
- Technology and Market leader in Integrated Connector

 Module Magnetic products (ICMs)
- Technology and Market leader in Automotive Magnetic products

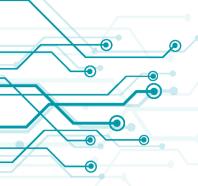












Wireless Components



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 FRI
- IoT, SmartGrid, Meters, Remote Monitoring, Sensor **Networks**
- **Customized solutions**

















Pt RTD Sensors







Sensor assemblies



SMD (solderable/ sinterable)



Sensor Elements with Wires



Ceramic housed & SOT housed sensor

- Pt Temperature sensor pioneer since 1906, Decades of experience and expert knowledge
- 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











