



40 years of excellence

YAGEO
Featured products





Table of contents



AC Series

Automotive Grade Thick Film Chip Resistor



AT Series

Automotive Grade Sulfur Resistant
Thin Film Chip Resistor



PA Series

Automotive Grade Metal Alloy Current Sensor
Low TCR Chip Resistor



PE Series

Automotive Grade Metal Foil Current Sensor
Low TCR Chip Resistor



PU Series

Shunt Chip Resistor



PS Series

Metal Current Sensor,
Low TCR Chip Resistor, 4 Termination



AC Series

Automotive Grade MLCC



AS Series

Automotive Grade Soft Termination MLCC



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Table of contents



CQ Series

High Frequency MLCC



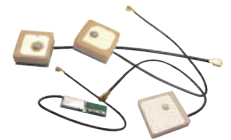
CS Series

Soft Termination MLCC



Wireless Components

Active GNSS Antenna



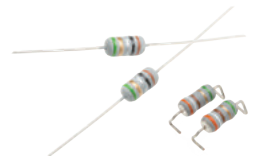
OTP Series

Over Temperature Protection Fusible Resistor



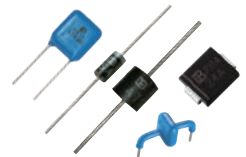
CRP Series

Precision Wirewound Resistor, Pulse Version



TVS Series

Transient Voltage Suppressors



MOV Series

Metal Oxide Varistors



ESD Series

Electrostatic Discharge Protection Devices

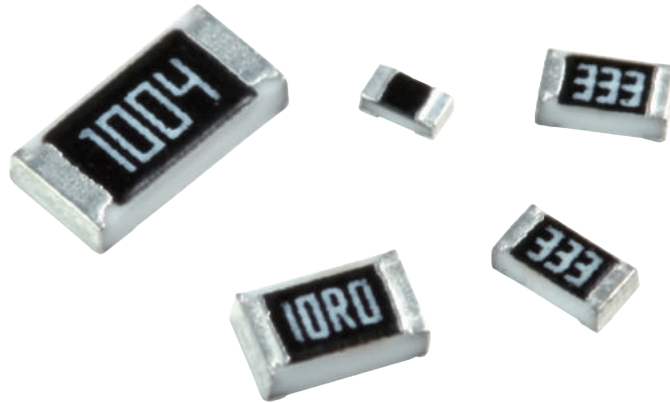


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AC Series

Automotive Grade Thick Film Chip Resistor



AEC
Q200



Features

- AEC-Q200 qualified
- Production Part Approval Process (PPAP) available
- Soldering is compliant with J-STD-020D
- Highly reliable electrode construction
- 100% performed by automatic optical inspection prior to taping



Specifications

- Case size: 0201 to 2512, 0612, 1020, 1225 (wide-termination)
- Resistance range: 1 ~ 22 M Ω
- Tolerance : $\pm 0.5\%$, $\pm 1\%$, $\pm 5\%$
- TCR : ± 100 , ± 200 ppm/ $^{\circ}\text{C}$ (50ppm available in size 0402~1206)
- Offer high power rating and wide-termination for excellent heat dissipation



Applications

- All general purpose applications
- Automotive - Infotainment, lighting, BMS
- Power systems
- Industrial

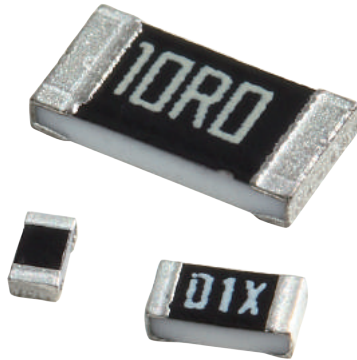


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AT Series

Automotive Grade Sulfur Resistant Thin Film Chip Resistor



Features

- AEC-Q200 qualified, Production Part Approval Process (PPAP) available
- Superior resistance against sulfur-containing environments
- High accuracy: $\pm 0.1\%$, $\pm 0.25\%$, $\pm 0.5\%$, $\pm 1\%$
- High precision and stability
- Low TCR, low electrical noise



Specifications

- Case size: 0402 ~ 1206
- Resistance range: 10 ~ 1M Ω
- Tolerance : $\pm 0.1\%$, $\pm 0.25\%$, $\pm 0.5\%$, $\pm 1\%$
- TCR : ± 25 , $\pm 50\text{ppm}/^\circ\text{C}$



Applications

- Automotive electronics
- Industrial control
- Test and measuring equipment
- Telecommunication
- Power system

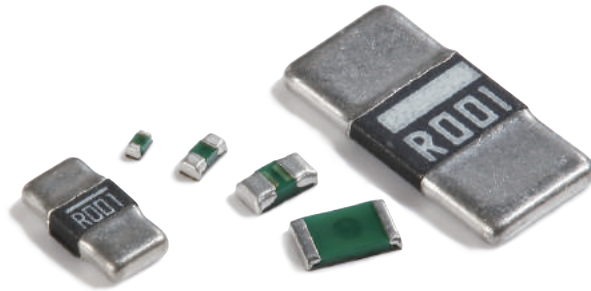


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PA Series

Automotive Grade Metal Alloy Current Sensor Low TCR Chip Resistor



AEC
Q200



Features

- AEC-Q200 qualified
- Excellent current sensing performance
- Low power consumption
- Operating temperature from -55°C to 170°C
- 100% sulfur resistant



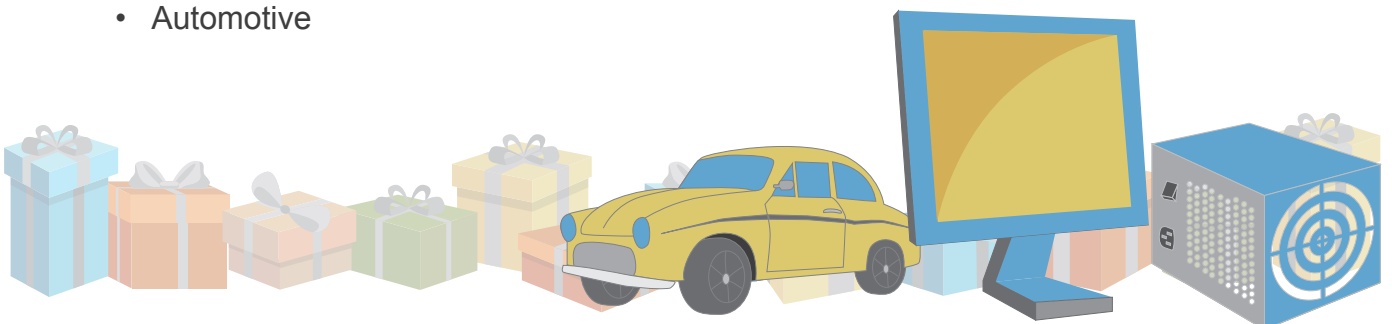
Specifications

- Case size: 0201 ~ 2512
- High power rating: 1/20 W ~ 3W
- Low TCR down to $\pm 50\text{ppm}/^\circ\text{C}$
- Resistance: $0.5\text{m}\Omega \sim 100\text{m}\Omega$
- Jumper available in size 0201 ~ 1206 ; $0201 < 5\text{m}\Omega$, $0402 < 1\text{m}\Omega$, $0603 \sim 1206 < 0.2\text{m}\Omega$



Applications

- Consumer goods
- Computer
- Telecom / Datacom
- Industrial / Power supply
- Automotive

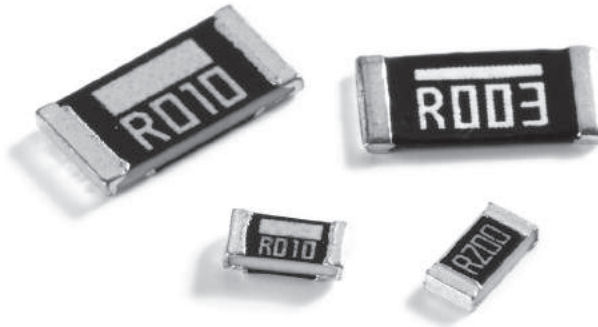


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PE Series

Automotive Grade Metal Foil Current Sensor Low TCR Chip Resistor



AEC
Q200



Features

- AEC-Q200 qualified
- Excellent current sensing performance
- Low power consumption
- Operating temperature from -55°C to 170°C
- 100% sulfur resistant



Specifications

- Case size: 0201~2512, 0508, 0612, 0815 (wide-termination)
- Tight tolerance : $\pm 0.5\%$, $\pm 1\%$, $\pm 5\%$
- Low TCR down to $\pm 50\text{ppm}/^\circ\text{C}$
- Resistance : $0.5\text{m}\Omega \sim 910\text{m}\Omega$



Applications

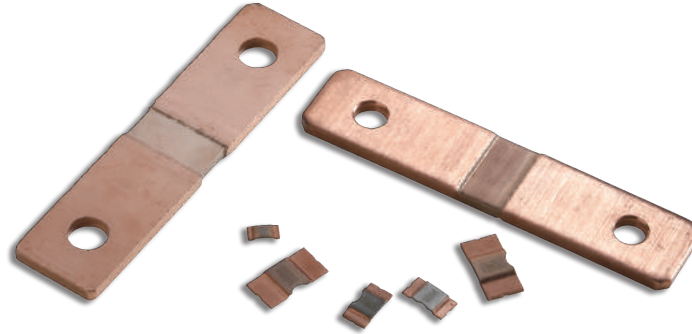
- Consumer goods
- Computer
- Telecom / Datacom
- Industrial / Power supply
- Automotive
- Alternative energy



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PU Series Shunt Chip Resistor



Features

- AEC-Q200 qualified
- Withstand high temperature and high humidity
- Excellent heat dissipation
- Low thermal EMF
- Operating temperature from -65°C to 275°C
- 100% sulfur resistant



Specifications

- Case size: 2512, 3921, 5931, 4014, 4614, 6820, 8420, 8518 & 9520
- High rated power 3 ~ 36W
- Low TCR down to 50 ppm/°C
- Resistance: 0.05mΩ ~ 5mΩ



Applications

- Battery management system (BMS)
- Power system
- Automotive
- Telecom base station
- Industrial equipment
- Alternative energy



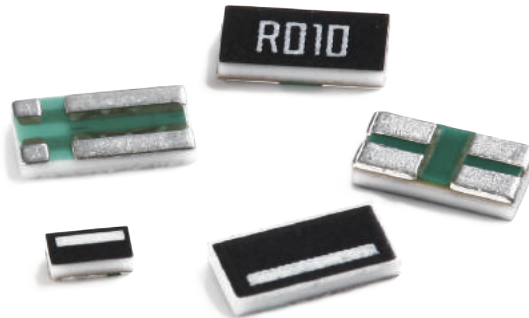
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PS Series

Metal Current Sensor

Low TCR Chip Resistor, 4 Termination



AEC
Q200



Features

- Low measurement error due to special configuration in the Kelvin terminal (4-terminal) design
- Excellent heat dissipation
- 100% sulfur resistant
- Excellent heat dissipation
- Ultra low resistance
- Low TCR, low electrical noise



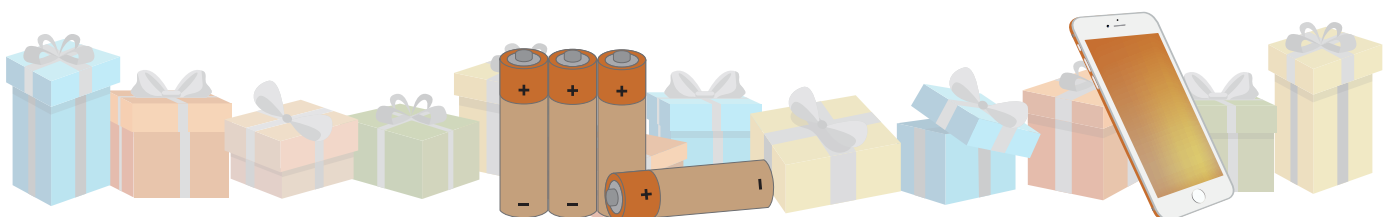
Specifications

- Case Size: 0306, 0612, 1206
- Low TCR down to ± 50 ppm/ $^{\circ}\text{C}$
- Tight tolerance ($\pm 0.5\%$, $\pm 1\%$, $\pm 5\%$)
- Ultra low resistance down to 0.5 m Ω



Applications

- Smart phone / Pad
- Industrial equipments
- Power / Server



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AC Series Automotive Grade MLCC



Features

- AEC-Q200 qualified and PPAP ready
- IATF 16949 certified
- Board flex $\geq 2\text{mm}$
- 100% AOI
- High reliability



Specifications

- TC: X7R, NPO (-55°C~125°C)
- Capacitance range: 0.47pF ~ 2.2μF
- Tolerances: $\pm 0.1\text{ pF}$, $\pm 0.25\text{ pF}$, $\pm 0.5\text{ pF}$, $\pm 1\%$, $\pm 2\%$, $\pm 5\%$, $\pm 10\%$, $\pm 20\%$
- Case size: 0402 ~ 1812
- Voltage range: 6.3V ~ 630V



Applications

- All general purpose applications
- Automotive - Entertainment
- Automotive - Comfort and security
- Automotive - Information

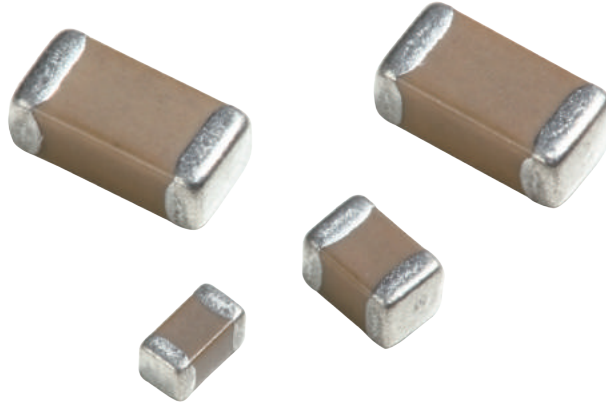


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AS Series

Automotive Grade Soft Termination MLCC



Features

- AEC-Q200 qualified and PPAP ready
- IATF 16949 certified
- Board flex ≥ 5 mm
- 100% AOI & SPC monitor
- Enhanced thermal and mechanical robustness



Specifications

- TC: X7R(-55°C~125°C)
- Capacitance range: 1 nF ~ 4.7 uF
- Tolerances: $\pm 5\%$, $\pm 10\%$, $\pm 20\%$
- Case size: 0805, 1206, 1210
- Voltage range: 10 V ~ 250 V



Applications

- Automotive - Audio and video systems
- Automotive - Remote vehicle control
- Automotive - Navigation
- Automotive - Comfort



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 CQ Series
High Frequency MLCC



Features

- BME process with copper inner electrodes
- High Q and low ESR in VHF, UHF and microwave
- Tight tolerance (min. $\pm 0.05\text{pF}$)
- High reliability with no polarity



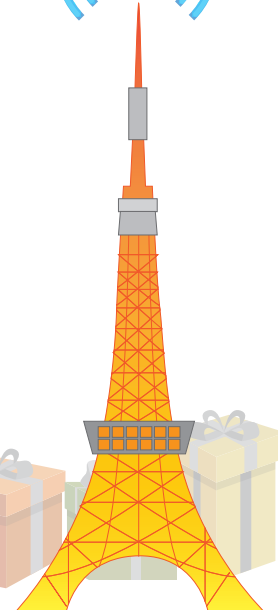
Specifications

- TC: NPO ($-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$)
- Case size: 0201 ~ 0805
- Capacitance range: 0.2 pF ~ 100 pF
- Maximum power: 1 W
- Voltage range: 16 V ~ 250 V



Applications

- Mobile front end
- NB and tablet
- Wireless networking
- Power amplifier design
- M2M

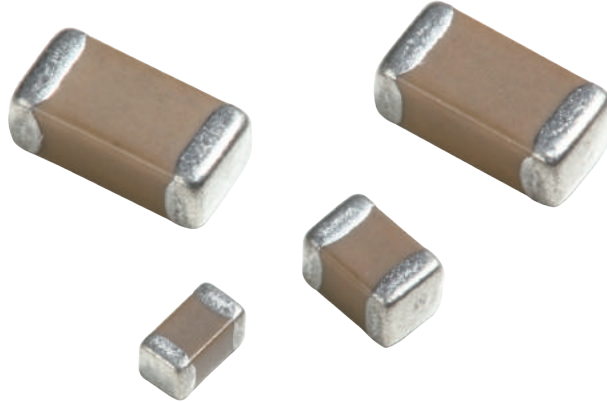


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CS Series

Soft Termination MLCC



Features

- Flexible termination system
- Improved resistance to thermal stresses
- Increased mechanical performance
- Lead-free termination meet RoHS requirements



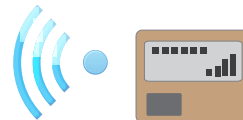
Specifications

- TC: NPO/X7R (-55°C~125°C)
- Case size: 0402 ~ 1812
- Capacitance range: 0.47 pF ~ 2.2 μ F
- Voltage range: 16 V ~ 3 KV



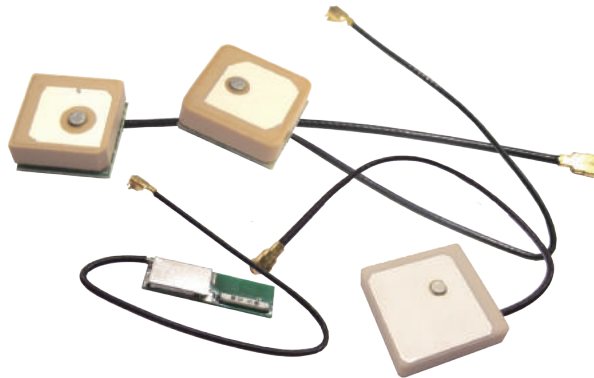
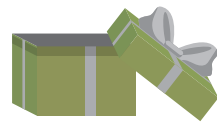
Applications

- High flexure stress circuit boards
- Switch power supplies
- Telecom base station
- Smart meter
- Power equipment



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Wireless Components **Active GNSS Antenna**



Features

- Support GPS & Glonass & Beidou system
- Internal or external antenna
- Flexible cable length and connector type
- Omini-directional/high directional
- High gain, built-in LNA
- Low noise



Specifications

- Frequency range: 1559 ~ 1610 MHz
- Circular or Linear polarization
- Impedance: 50 Ω
- Operating temperature: -30°C ~ +80°C



Applications

- Navigation device
- Telematics box
- Fleet management

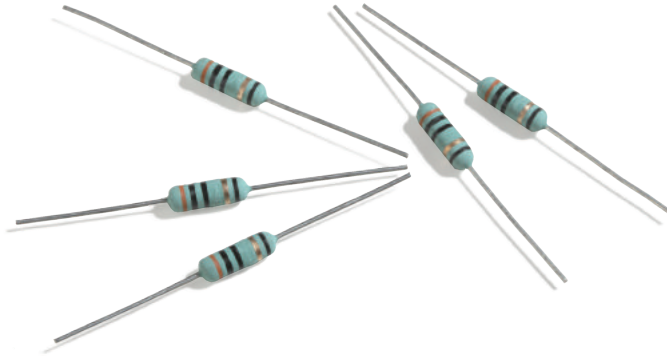


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OTP Series

Over Temperature Protection Fusible Resistor



Features

- Over temperature protection under overcurrent conditions
- Semi- short circuit quick fusing
- Wide resistance range
- Excellent anti-surge and pulse witholding capability
- Customized fusing current & temperature
- UL certified



Specifications

- Power rating: 1W, 2W
- R value: $1\ \Omega \sim 200\ \Omega$
- Tolerance: $\pm 1\%$, $\pm 5\%$
- Through hole wirewound
- Thermal fuse



Applications

- Industrial
- Alternative energy
- Home appliance
- Charger
- Power supply

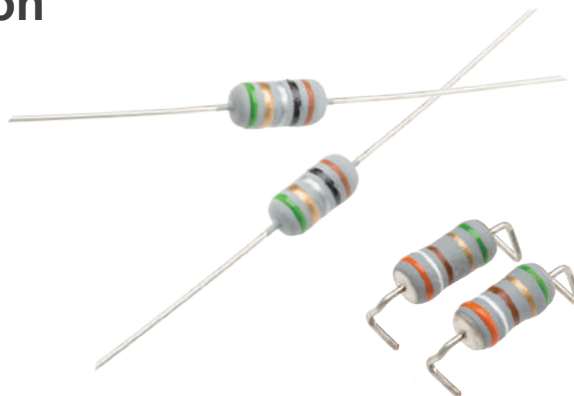


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CRP Series

Precision Wirewound Resistor, Pulse Version



Features

- Flame retardant coating
- Narrow tolerance $\pm 0.5\%$
- Z bending form for SMD
- Lead-free, RoHS compliant & halogen free



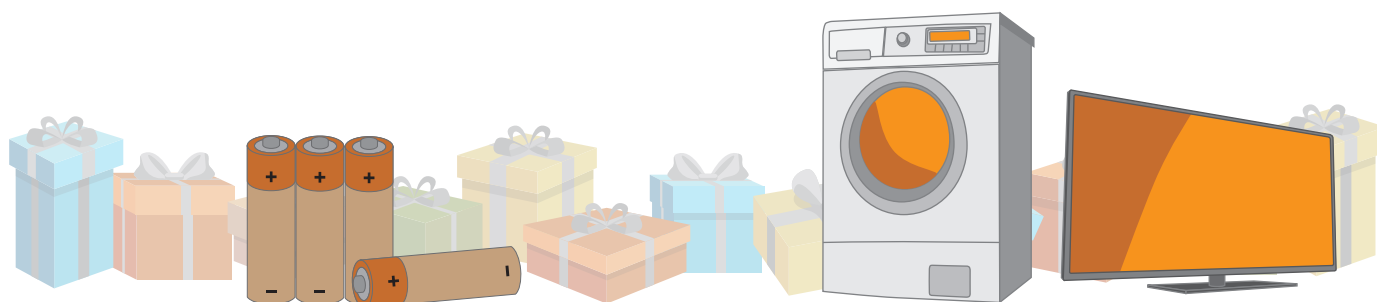
Specifications

- Power rating: 1W ~ 5W
- High pulse load up to 6[KV]
- Tolerance: $\pm 0.5\%$, $\pm 1\%$, $\pm 2\%$, $\pm 5\%$
- Resistance range: 0R1 ~ 5K1



Applications

- Power supplies
- Battery chargers
- Industrial
- Home appliances

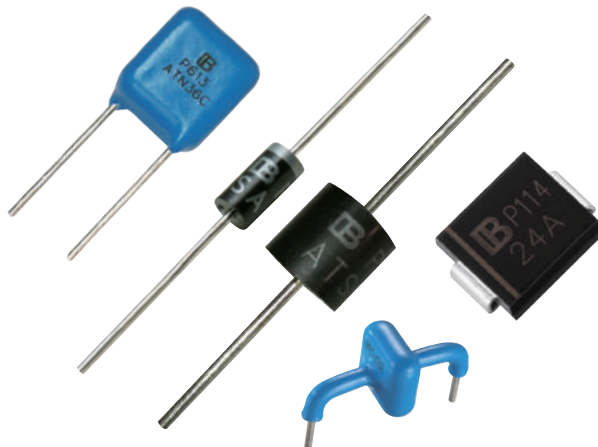


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TVS Series

Transient Voltage Suppressors



Features

- Safety certification by UL
- Low dynamic internal resistance, low clamping voltage
- Fast response speed
- High voltage tolerance



Specifications

- Working voltage= 5~1200 V
- Pppm = 400 ~ 30,000 W at 10/1000us pulse form
- Ipp=3kA, 6kA, 10kA, 16kA, 20kA (or even higher) at 8/20us pulse form
- Package: SMAJ, SMBJ, SMCJ, DO-218AB, DO-15, DO-41, DO-201, P600...



Applications

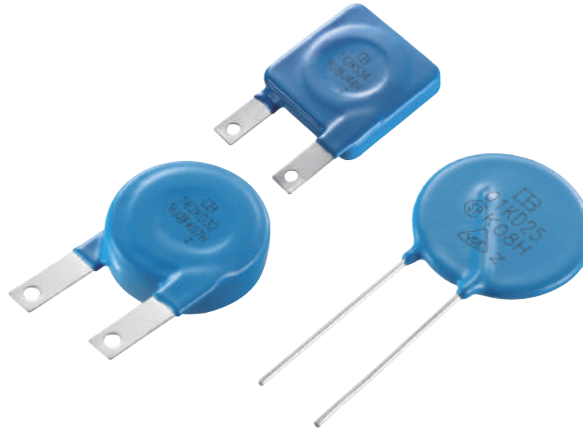
- DC Power supply
- Security surveillance
- Telecom
- Automotive



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MOV Series Metal Oxide Varistors



Features

- Safety certification by UL/ TUV/ VDE/ CSA/ CQC
- Good surge energy absorption capability
- VBR (Breakdown voltage) is by-directional and symmetric
- Fast response speed



Specifications

- Varistor voltage= 18V~1800V, tolerance= $\pm 10\%$
- Ipp (Peak pulse current) = few hundred A to few dozen KA at 8/20us pulse form
- Diameter: 5 to 53mm



Applications

- AC power supply
- Telecom
- Circuit breaker
- Consumer
- SPD (Surge Protection Devices)
- LED driver
- Smart meter

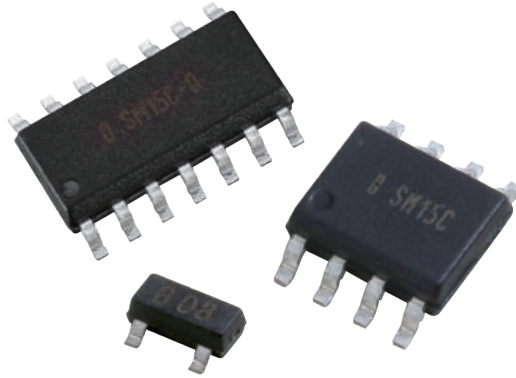


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ESD Series

Electrostatic Discharge Protection Devices



Features

- Low capacitance (under 1pF)
- High design flexibility, provide customized design for different capacitance, configuration, pulse load capability...etc.
- Low clamping voltage



Specifications

- Working voltage is followed the voltage of IC, such as 2.8V, 3.3V, 5V, 12V, 15V, 24V, 36V
- Package: QFN-0201, SOD-882, DFN1006-3L, SOT-523, SOD-523, QFN-10, SOD-323, SOD-123S, SOD-323, SOT-23, SOT-143, SOT-363, SOT23-6L, SOIC-8, SOIC-16
- Small size is available (0201)



Applications

- High speed networking (e.g. HDMI, USB 3.0, RJ45, IEEE1394) in Telecom
- Smart phone
- Industrial
- Consumer



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