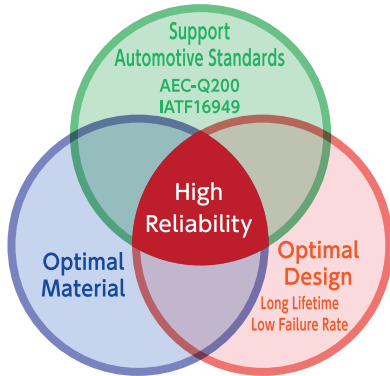


# For Automotive Electronics

## High Reliability Products

### What are High Reliability Products?

Products optimized to meet the requirements of individual industrial categories, such as automotive device and industrial equipment markets



### Applications

#### for Powertrain, Safety

##### Powertrain

- engine ECU
- cruise control
- 4WS (4 wheel steering)
- automatic transmission
- power steering
- HEV/PHV/EV core control (battery, inverter, DC-DC)
- automotive locator (car location information providing device)

##### Safety

- ABS(anti-lock brake system)
- ESC(electronic stability control)
- airbag
- ADAS (advanced driver-assistance systems)

#### for Automotive Body & Chassis and Infotainment

##### Automotive Body

- wiper
- automatic door
- power window
- keyless entry system
- automobile digital mirror
- interior lighting
- air conditioning system
- TPMS(tire pressure monitoring system)
- anti-theft device (immobilizer)
- ADAS(sensor and equipment not interlocked with safety equipment or powertrain)

##### Chassis and Infotainment

- car infotainment system
- ITS / telematics system
- instrument cluster
- dashboard camera (genuine products)

### Ceramic Capacitors

#### for Powertrain, Safety

##### Multilayer Ceramic Capacitors

Multilayer Ceramic Capacitors (High Dielectric): MAAS Series

##### Soft Termination Multilayer Ceramic Capacitors

MCAR Series

#### for Automotive Body & Chassis and Infotainment

##### Multilayer Ceramic Capacitors

Multilayer Ceramic Capacitors (High Dielectric): MCAS Series  
Medium-High Voltage Multilayer Ceramic Capacitor: MCAS Series  
Multilayer Ceramic Capacitors (Temperature Compensating): MCAS Series

##### Soft Termination Multilayer Ceramic Capacitors

MAJC Series

##### High frequency/Low loss Multilayer Ceramic Capacitors

MCAR Series

##### LW Reversal Decoupling Low ESL Capacitors (LWDC™)

MCRL Series



### Aluminum Electrolytic Capacitors

#### for Powertrain, Safety

#### for Automotive Body & Chassis and Infotainment

##### Aluminum Electrolytic Capacitors



Vibration Resistant

##### Conductive Polymer Hybrid Aluminum Electrolytic Capacitors



Vibration Resistant

### RF Devices for Telematics Applications

#### for Automotive Body & Chassis and Infotainment

##### FBAR/SAW Devices

Band Pass Type



Duplexer/Quadplexer



##### Multilayer Ceramic Devices



Multiplexer

BandPassType

Low Pass Type

Chip Antenna

### Inductors

#### Power Inductors

##### Wire-wound Metal Power Inductors MCOIL™

#### for Powertrain, Safety

LACN Series

165°C



#### for Automotive Body & Chassis and Infotainment

LACN Series

125/150°C



LCEN Series

150°C



LCCN Series

150°C



##### Wire-wound Ferrite Power Inductors

#### for Powertrain, Safety

LAXN Series

150°C



#### for Automotive Body & Chassis and Infotainment

LCXN/LCXP Series

125/150°C



LCXH/LCXASeries

150°C



### EMC

#### Ferrite Bead Inductors

#### for Powertrain, Safety

LAMG Series

150°C



#### for Automotive Body & Chassis and Infotainment

LCMC/LCMG Series



### Multilayer Piezoelectric Actuators

#### for Automotive Body & Chassis and Infotainment

#### Piezoelectric Elements



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 ※Series names, which have been extracted from part numbers, describe product segments including product types and characteristics.

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