

Instrument Panel

- Power inductors
- Data line filtering using common mode chokes

Electric Power Steering

- Signal level inductors
- Non-contacting Hall Effect sensors
- Custom high current common mode chokes

Telematics

- Power inductors
- IoT Connectivity

Headliner Display

- Power inductors

Supplemental Restraint System (SRS)

- Power inductors for airbag control module

Door Power Modules

- Power Inductors
- Custom transformers

Air Conditioner Fans

- Molded power inductors with high current saturation

Anti-Lock Braking System (ABS)

- Power inductors

Engine Control Module

- Custom transformers
- Custom inductors
- High current power inductors

Automatic Door Sensors

- Surface mount opto solution with robust EMI protection in custom plastic housing

Night Vision Systems

- Custom toroids
- Power inductors
- Custom inductors

LED Lighting

- Power inductors for SEPIC application

Wiper Motor Controls

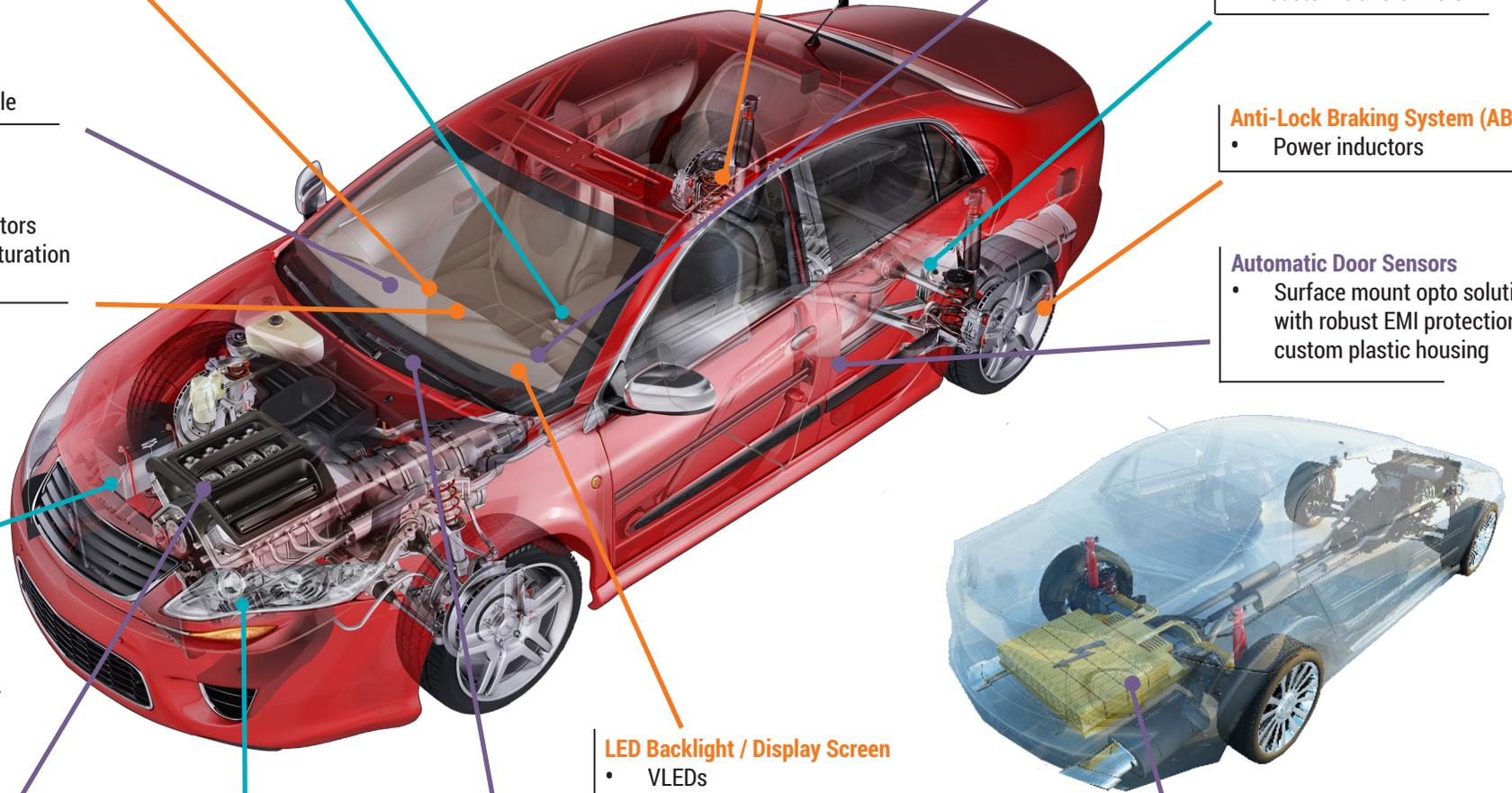
- "Load Dump" resistors prevent damaging high voltage transients

LED Backlight / Display Screen

- VLEDs
- Power inductors
- Human-Machine-Interface (HMI)

Battery Management in Hybrid Vehicles

- High power resistors
- Precision current sense resistors for rechargeable batteries



Product Line Card - Components for Transportation and Automotive Applications



Steering Sensors for EPS

- High performance and smooth feedback
- Provides critical high accuracy torque and angle information
- Redundant outputs for full diagnostics to ensure safety
- Non-contacting and contacting options readily available
- Over 20 million units installed worldwide



Optoelectronics

- High-power and through-hole mounted versions available
- Custom cable options available
- Custom quad-track sensors for sliding van door and power lift gates
- High voltage optoisolators for battery management systems
- AEC-Q101 qualified LEDs



Transformers

- Standard and custom designs
- Isolation voltages to 500Vac
- Reinforced isolation available
- Robust performance characteristics
- Harsh environment capability
- High power density
- Low power losses
- Cost-effective solution



Current Sense Resistors

- Vast portfolio of standard resistive current sense products
- Can be adapted or designed to meet specific application requirements
- Resistance values down to 50 $\mu\Omega$
- For measurement of currents up to 600A



Common Mode Chokes

- Designed for severe duty AEC-Q200 applications standards
- Wide range of inductances and package sizes
- EMI noise suppression



High Voltage/Power Resistors

- Products available across the HV range up to 100kV
- Integrated high voltage dividers
- Low-profile, thick film on steel technology
- Wirewound resistors up to 300W



High Power Inductors

- Designed for severe duty AEC-Q200 applications standards
- Wide range of inductances and package sizes
- High current applications to 120A
- High temperature applications to 220°C
- Magnetic shielding option
- Corrosion resistant



Human-Machine-Interface (HMI)

- Flexible capacitive switching features suitable for harsh environments
- Custom design and print membrane keypads and overlays
- Illuminated control panels and display solutions with our patented thin-film backlighting technology



Connectivity and Telematics

- Wireless solutions using the latest IoT technologies for automotive manufacturers, transportation organizations, transit systems and global providers of vehicle telematics
- Our platform design solution for fast track IoT development offers OEMs an alternative to a fully customized IoT solution

