



Body Electronics Infotainment, Navigation, Audio



MOSFETs

N-Channel MOSFETs in 5 mm x 6 mm Asymmetric PowerPAK®, Rated at 12 V, 60/20 A per Leg, 3.3 mΩ / 6.5 nΩ

- TrenchFET® power MOSFET
- AEC-Q101 qualified
- 100 % Rg and UIS tested

[SQJ202EP](#)



OPTOELECTRONICS

890 nm SMD Infrared Emitters

- Low-profile PLCC2 package, wavelength matched to sensitivity of proximity sensor
- External emitter to enable gesture function of proximity sensor

[VSMY3890X01](#)



INDUCTORS

IHLP® High-Temperature (155 °C) Parts in Double Inductor Package

- Optimal design provides high quality sound and low distortion
- Low coupling for minimal cross-talk between inductors

[IHL-4032KB-5A](#)



RESISTORS

Thick Film Surface-Mount Chip Resistors, Wraparound, Extremely Low Value

- Low resistance values from 0.01 Ω to 0.99 Ω and tolerance of 1 %
- Thick film construction with 2x power capacity

[RCWE0603](#)



OPTOELECTRONICS

Fully Integrated Proximity and Ambient Light Sensor with I2C Interface

- Integrated current driver with internal logic to drive up to three IREDS
- Low-profile QFN SMD package, 16 bit resolution, proximity distance up to 200 mm
- Up to 4 different slave addresses for more sensors on I2C bus

[VCNL4035X01](#)



MOSFETs

N-Channel MOSFETs in 5 mm x 6 mm Asymmetric PowerPAK®, Rated at 40 V, 60/20 A per Leg, 3.9 mΩ / 9.4 nΩ

- AEC-Q101 qualified, 100 % UIS and RG tested with up to 175 °C operation
- Low-voltage, high-frequency synchronous buck applications, lower switching losses

[SQJ208EP](#)



POWER RECTIFIERS

20 A, 60 V TMBS® (Trench MOS Barrier Schottky) Rectifiers

- Low profile package
- Trench MOS Schottky technology
- Low power losses, high efficiency

[V2PM6LHM3](#)



INDUCTORS

Low-Profile, High-Current IHLP® Inductors

- High temperature, up to 155 °C
- Shielded construction
- Excellent DC/DC energy storage up to 1 MHz to 2 MHz. Filter inductor applications up the SRF (see Standard Electrical Specifications table).

[IHLP-2525CZ-5A](#)



RESISTORS

Precision Thin Film Resistor Arrays, Superior Moisture Resistivity, TCR ± 0.05

- Arbitrary resistance ratio up to 1:20, superior tracking stability over lifetime
- Relative TCR down to ± 5 ppm/K (tracking), AEC-Q200 qualified

[ACAS 0606 AT](#)



TANTALUM CAPACITORS

Solid Tantalum Chip Capacitors, High CV Leadframeless Molded, Automotive Grade

- Smallest AEC-Q200 qualified tantalum capacitors with case sizes as small as 0603

[TP8](#)



INDUCTORS

IHLE® High Current SMD Inductors With E-Field Shield, Operating Temperature 155 °C

- Excellent EMI protection, double-shielded

[IHLE-3232DD-5A](#)



ALUMINUM CAPACITORS

Aluminum Electrolytic Capacitors SMD (Chip), High Temperature, Low Impedance, High Vibration Capability

- High temperature, low impedance, high vibration capability
- High ripple current, long useful life

[246 CTI-V](#)



MOSFETs

N-Channel MOSFETs in 5 mm x 6 mm Asymmetric PowerPAK®, Rated at 20 V, 60/20 A per Leg, 3.7 mΩ / 8.8mΩ

- TrenchFET® power MOSFET
- AEC-Q101 qualified

[SQJ200EP](#)



CERAMIC CAPACITORS

AEC-Q200 Qualified for High Frequency Circuits With Ultra Stable Dielectric Material, Broad Range of Sizes and Working Voltages

- Case size 0402, 0603, 0805, 0505, 1111
- High frequency

[GA...31M Automotive HiFREQ MLCCs](#)



TVS PROTECTION DIODES

3.6 kW Unidirectional PAR® TVS Diodes

- Junction passivation optimized design passivated anisotropic rectifier technology
- TJ = 175 °C capability suitable for high reliability and automotive requirement

[SM5S Series](#)



INDUCTORS

Haptic Feedback Actuators

- Solenoid construction provides high
- impulse vibration for clear tactile feedback in noisy environments
- Actuator can drive a 0.5 kg load to 6 g's of acceleration with a 12 V, 5 ms pulse

[IHPT-1411AF-AB0](#)



POWER ICs

Automotive 125 °C Analog Switch, Dual DPDT / Quad SPDT

- 1.8V to 5.5 V single supply operation
- Low resistance: 0.37 Ω typ. at 2.7 V

[DGQ2788A](#)



TVS PROTECTION DIODES

5 kW Unidirectional PAR® TVS Diodes

- Junction passivation optimized design passivated anisotropic rectifier technology
- TJ= 185 °C capability suitable for high reliability and automotive requirement
- Available in uni-directional pol

[5KASMC Series](#)



MOSFETs

P-Channel MOSFETs in 5 mm x 6 mm PowerPAK®, Rated at -12 V, 3.3 mΩ

- TrenchFET® power MOSFET
- AEC-Q101 qualified

[SQJ123ELP](#)



RESISTORS

Power Metal Plate™ Current Sense Resistors, 10 mΩ to 500 mΩ, 2 W

- 2010 and 2512 size package
- Ideal for all types of current sensing and pulse applications including switching and linear power supplies, instruments, power amplifiers, shunts, power inverters, and battery management

[WFMA2010](#)



RESISTORS

Ultra Precision Thin Film Chip Resistors, Tolerance down to 0.02 %, TCR down to 2 ppm/K, 0402 to 1206 Case Sizes

- Low temperature coefficients and tight tolerances
- Excellent overall stability < 0.05 % (1000 h rated power at 70 °C)
- Sulfur resistance verified according to ASTM B 809

[TNPU e3](#)

