

Full Electric Vehicles (FEVs) Battery Management and DC/DC



RESISTORS

Long-Side Termination Thick Film Resistors, 250 mW to 2 W in 0406 to 1225 sizes, 1 % & - 1 %



- Operating temperature up to 155 °C , TCR = 100 ppm/K to 200 ppm/K

[RCL e3](#)

RESISTORS

High Pulse Load Carbon Film MELF Resistors, Pulse Handling Up to 3 kW, ESD Up to 16 kV



- 1.0W rated dissipation in MELF 0207 package
- Resistance from 2.2 Ω to 1.5 M Ω
- 500V DC/ AC RMS operation. 1 W power

[CMB 0207](#)

RESISTORS

Thin Film Chip Resistors, Resistance = 1 Ω to 511 k Ω TCR = 25 ppm/K to 50 ppm/K



- Tolerance = 0.5 % to 1 %
- Power rating 125 mW

[MCT 0603 AT](#)

RESISTORS

SMD Power Resistors, 35 W, 10 m Ω to 550 K Ω Non-Inductive



- TO-263 package, TCR = 150 ppm/K
- AEC-Q200 qualified

[D2TO35](#)

TVS PROTECTION DIODES

400 W Unidirectional TransZorb® TVS Diodes



- 400W peak pulse power capability with a 10/1000 μ s waveform
- Tolerance of the avalanche breakdown voltage $\pm$ 5 % V_{TVSxxxA}... $\pm$ 2 % V_{TVSxxxG}...
- Online simulation tool available

[VTVS3V3ASMF to VTVS63GSMF](#)

RESISTORS

Power Metal Strip® Battery Shunt Resistor, Very Low Value (50 $\mu\Omega$, 100 $\mu\Omega$, 125 $\mu\Omega$, 250 $\mu\Omega$)



- High power to resistor size ratio (36 W in 8518 package)
- AEC-Q200 qualified

[WSBS8518](#)

SMALL SIGNAL DIODES

500 mW Zener diodes in



- Excellent stability for voltage stabilization and reference voltage generation
- Zener diodes permitting 500 mW power dissipation
- Green product, fully halogen-free

[PLZ Series](#)

INDUCTORS

IHLE® High Current Inductors With E-Field Shield



- High temperature, up to 155 °C
- Integrated E-Shield for maximum EMI reduction

[IHLE-5050FH-5A](#)

OPTOELECTRONICS

Phototransistor Optocouplers, SOP-4 Package, Low 1 mA Forward Current



- AEC-Q101 qualified
- High CTR with low input current

[VOMA618A](#)

INDUCTORS

Power SMD IHLP® Storage Inductors, 0.22 μ H to 22 μ H



- Soft saturation, high rated current, temperature up to 155 °C

[IHLP-5050FD-5A](#)

RESISTORS

Professional, Wide Terminal, Thin Film Chip Resistors



- Rated dissipation P85 up to 1 W
- Superior temperature cycling robustness

[MCW-AT](#)

RESISTORS

High Voltage, Thin Film Flat Chip Resistors, Up to 1 kV Operating Voltage



- High operating voltage U_{max}. up to 1000 V
- Low voltage coefficient $\leq$ 1 ppm/V
- Long term stable and excellent moisture stability

[TNPV e3](#)

CERAMIC CAPACITORS

AEC-Q200 Qualified, Sizes 0603-0805-1206, 50 V, 100 V, and 200 V in X7R



- AEC-Q200 qualified with PPAP available
- Meets ESD AEC-Q200-002B level 6

[GA...EDG Automotive ESD ML-CCs](#)

RESISTORS

Surface-Mount Molded Dividers, High Voltage



- Voltage up to 1415 V
- Maximum resistance ratio of 700:1

[CDMV](#)

RESISTORS

Precision Thin Film Chip Resistor Arrays, Superior Moisture Resistivity



- Superior moisture resistivity, $|R/R| \leq 0.5\%$ (85 °C; 85 % RH; 1000 h)
- Rated dissipation P70 up to 125 mW per resistor

[ACAS0612 AT Precision](#)

THERMISTORS

SMD Glass-Protected NTC Thermistors



- TCR ranging from -7 %/K at -40 °C to -2 %/K at 150 °C
- Tolerance on R25 down to 1 %, and on B25/85 down to 1 %
- Suitable for wave or reflow soldering

[NTCS...e3](#)

PROTECTION DIODES

Low capacitance single line ESD protection diode in SOD-523

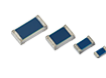


- Compact SOD-523 package
- Low package height ≤ 0.75 mm

[VBUS05M1-02V](#)

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 $\leq 0.05\%$ (1000 h rated power at 70 °C)
- Sulfur resistance verified according to ASTM B 809

[TNPU e3](#)

RESISTORS

Pulse Proof, High Power Thick Film Chip Resistors



- Excellent pulse load capability
- Enhanced power rating, double-side printed resistor element
- High power thick film chip resistors is the perfect choice for power measurement

[CRCW-HP e3](#)

RESISTORS

Cemented Leaded Wirewound Resistors, High Pulse Load



- AEC-Q200 qualified AC-AT series
- High power dissipation in small design

[AC-AT](#)

POWER RECTIFIERS

3 A 60 V Dual High-Voltage TMB-S® (Trench MOS Barrier Schottky) Rectifier



- Trench MOS Schottky technology
- Low profile package

[V3F6HM3](#)