



Powertrain – Injection Control and Fuel Pump Direct Injector Control



ALUMINUM CAPACITORS

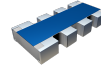


SMD Aluminum Capacitors, High Temperature Up to 150 °C, Low ESR

- High ripple current up to 1400 mA at 150 °C, capacitance up to 3300 μ F
- Useful life up to 2000 h at 150 °C, high vibration capability

[260 CLA-V](#)

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](#)

POWER RECTIFIERS



2 A FRED Pt® Hyperfast Rectifiers

- Hyperfast recovery time, $t_{rr} = 25$ ns, reduced Q_{rr} , and soft recovery
- DO-219AB (SMF) package, high T_j of 175 °C

[VS-2EJH02HM3](#)

TVS PROTECTION DIODES



Surface-Mount PAR® TVS Diodes, 600 W, 6.8 V to 51 V, Low Profile (1 mm)

- Very low-profile DO-221AC (SlimSMA™) package - typical height of 0.95 mm
- $T_j = 185$ °C

[TA6Fxx](#)

RESISTORS



Power Metal Strip® SMD Resistors, Wide Terminal, 1 m Ω to 3 m Ω , 1 W

- Wide side terminal construction that yields high power to foot print size ratio (2 W in 1020 and 1 W in 0612 package)

[WSL0612](#)

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](#)

CERAMIC CAPACITORS



AEC-Q200 Qualified, Broad Range of Sizes and Working Voltages, C0G (NPO), X7R, and X8R

- RoHS and Green compliant parts available
- AgPd termination available for epoxy bonding

[GA...31G Automotive MLCCs](#)

MOSFETS



N-Channel MOSFETs in 8 mm x 8 mm PowerPAK®, Rated at 100 V, 7 A per Leg, 8.6 m Ω

- AEC-Q101 qualified, 100 % UIS and RG tested with up to 175 °C operation
- Ultra-low $R_{DS(on)}$, thermally enhanced PowerPAK® 8x8L replaces D2PAK in less than half of the area

[SQJQ910EL](#)

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](#)

POWER RECTIFIERS



1 A 200 V TMBS® (Trench MOS Barrier Schottky)

- Trench MOS Schottky technology
- Low profile package

[V1F22HM3](#)

RESISTORS



Power Metal Strip® SMD Resistors, 20 m Ω to 50 m Ω

- All welded construction of the Power Metal Strip® resistors are ideal for all types of current sensing, voltage division and pulse applications
- Proprietary processing technique produces extremely low resistance values (down to 0.0005 Ω)

[WSL0805-18](#)