



48 VDC Boardnet DC/DC Converters, Bidirectional



RESISTORS

Professional, High Temperature
MELF Thin Film Resistors



- 175 °C specified operating temperature
- AEC-Q200 qualified

[MMA 0204 HT](#)

RESISTORS

Thin Film Resistors, 1.0 & 3.01
M Ω , 0201 to 1210 Case Sizes, 25 V
to 200 V

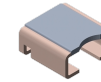


- Superior moisture resistivity (85 °C; 85 % RH)
- Excellent overall stability at different environmental conditions |R/R| $\leq$ 0.05 % after 1000 h at 70 °C
- Wide range of sizes and ohmic values

[TNPW e3](#)

RESISTORS

Power Metal Strip® SMD Resistors, 4-Terminal, Low Values, Low Value (down to 0.0002 Ω)



- High power rating of 3 W to 5 W with TCR = 20 ppm/K
- Very low resistance values, 0.0001 Ω to 0.004 Ω with tolerance of 1%

[WSK1216](#)

INDUCTORS

Low-Profile, High-Current IHLP® Inductors



- High temperature, up to 155 °C
- Shielded construction

[IHLP-6767GZ-5A](#)

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](#)

INDUCTORS

High Current Through-Hole Inductors, Edge-Wound Series

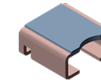


- High temperature continuous operation, up to 180 °C with no aging
- Low DCR to minimize losses and reduce temperature rise

[IHDM-1008BC-3A](#)

RESISTORS

Power Metal Strip® Resistors, High Power Up to 7 W, Surface-Mount



- Very high power (7 W)
- Resistance = 0.3 m Ω to 4 m Ω

[WSLP2726](#)

MOSFETS

N-Channel MOSFETs in 8 mm x 8 mm PowerPAK®, Rated at 40 V, 600 A, 0.65 m Ω

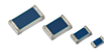


- TrenchFET® Gen IV power MOSFET
- AEC-Q101 qualified

[SQJQ140E](#)

RESISTORS

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

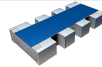


- Low temperature coefficients and tight tolerances
- Excellent overall stability $\leq$ 0.05 % (1000 h rated power at 70 °C)
- Sulfur resistance verified according to ASTM B 809

[TNPU e3](#)

RESISTORS

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

40 A Dual High-Voltage TMB-S® (Trench MOS Barrier Schottky) Rectifier



- Very low profile - typical height of 1.3 mm
- Trench MOS Schottky technology

[V40PW10CHM3](#)