



48 VDC Boardnet Integrated Starter Generators



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](#)

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](#)

SMALL SIGNAL DIODES

Zener Diodes With Surge Current Specifications, Voltage Range from 3.6 V to 200 V With $\pm 2\%$



- Silicon planar Zener diodes
- Voltage range includes 43 breakdown voltages from 3.6 V to 200 V with $\pm 2\%$ for BZD27B Series

[BZD27B Series](#)

FILM CAPACITORS

DC Film Capacitors, MKT Radial Potted Type



- Capacitance up to 560 μF
- High temperature capabilities, up to 150 °C
- Automotive grade available

[MKT1820](#)

TVS PROTECTION DIODES

5 kW Unidirectional PAR® TVS Diodes



- $T_J = 185\text{ °C}$ capability suitable for high reliability and automotive requirement
- Available in unidirectional polarity only

[5KASMC30HM3](#)

PROTECTION DIODES

Surface Mount XClampR™ Transient Voltage Suppressors



- IPPM = 180 A with a 10/1000 μs waveform
- $T_J = 175\text{ °C}$ capability suitable for high reliability and automotive requirement

[XMC7K24CAHM3](#)

INDUCTORS

High Current Through-Hole Inductors, High Temperature



- Shielded construction, high temperature rating up to 155 °C
- Handles high transient current spikes without saturation

[IHXL-2000VZ-5A](#)

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

Professional Thin Film MELF Resistors



- Unrivaled surge handling capability, ultimate stability over lifetime
- AEC-Q200 qualified, approved according to EN 140401-803, intrinsically sulfur-resistant, Green product

[MMB 0207](#)

RESISTORS

Anti-Surge, High Power Thick Film Chip Resistors



- Excellent surge pulse capability
- Superior ESD surge characteristics

[RCS e3](#)

RESISTORS

Precision Automotive High Temperature (155 °C at Full Rated Power) Thin Film Chip Resistors



- Resistance range: 1.0 Ω to 1 M Ω
- AEC-Q200 qualified, table 7F

[PATT2512](#)