

## フルハイブリッド (HEVs) 用主要部品



電気モータードライブ  
(DC/AC)



### THE VISHAY ADVANTAGE

- AEC準拠
- 高温動作対応
- 高信頼性
- SMDパッケージの高電圧受動部品
- 高耐圧半導体
- 優れた過渡電圧性能

# 電気モータードライブ (DC/AC)


**CERAMIC CAPACITORS**

**High Operating Temperature, Automotive Grade Leaded MLCC Capacitors**



[HOTcap® K...H, A...R, K...R](#)

- High-reliability MLCC insert with wet build process
- High operating temperature (up to 175 °C for K...H and up to 160 °C for A...R and K...R), rated voltages: 50 V, 100 V, 200 V

**RESISTORS**

**High-Voltage Thin Film Flat Chip Resistors, Up to 1 kV Operating Voltage, Range = 121 kΩ to 3.01 MΩ**



[TNPV1210 e3](#)

- 0.1 %, 0.5 %, and 1 % tolerances
- Excellent stability  $|\Delta R/R| \leq 0.05 \%$  after 1000 h at 70 °C

**RECTIFIERS**

**600 V, 30 A Hyperfast Rectifiers**



[VS-ETH3006SHM3](#)

- TO-263AB (D<sup>2</sup>PAK) power package optimized for fast battery charging systems and main inverter applications up to 20 kW

**RESISTORS**

**Surface-Mount Molded Dividers, High-Voltage**



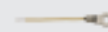
[CDMx](#)

- High voltage up to 3000 V, sulfur-resistant
- Automotive compliant terminations, wide range of resistance values and ratios

*\*Preliminary*

**NON-LINEAR RESISTORS**

**NTC Thermistors, Low Thermal Gradient Lug Sensors**



[NTCALUG02A](#)

- Low thermal gradient surface temperature sensors
- High insulation voltage

**INDUCTORS**

**EMI Filters with Flat Copper Wire as SMD or Leaded Up to 260 A**

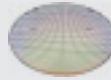


[Customized EMI Filters](#)

- Customized solutions for 48 V applications, low DCR, high current

**MODULES**

**Trench FS IGBT Modules**



[VS-GC30C065TB](#)

- Optimized for use with FRED Pt® Gen 4 ultrafast diodes
- Low collector-to-emitter voltages, extremely low conduction losses

**FILM CAPACITORS**

**High-Performance DC-Link Capacitors for Automotive Traction Applications (EV/HEV)**



[MKP1849](#)

- High voltage, high capacitance, high ripple current
- Customized upon request

**FILM CAPACITORS**

**Metallized Polypropylene DC-Link Film Capacitors, 450 V<sub>DC</sub> to 1200 V<sub>DC</sub>**



[MKP1848](#)

- OBC and HEV inverter DC link
- High ripple current, capacitance up to 400 μF