NVXR17S90M2SPC

Silicon Carbide (SiC) Module - EliteSiC Power Module for Traction Inverter, Single Side Direct Cooling, 1.7mOhm, 900V, 6-Pack

Product Overview

For complete documentation, see the data sheet.

The NVXR17S90M2SPC is part of EliteSiC power module family with industry-standard footprints for Hybrid and Electric Vehicle (HEV) traction inverter application. The module integrates **onsemi**'s second generation (M2) 900V SiC MOSFET technology in a 6-pack configuration.

For assembly ease and reliability, a new generation of press-fit pins is integrated into the power module signal terminals. In addition, it also integrates an optimized pinfin heatsink in the baseplate. To enhance reliability and thermal performance, sintering technology is applied for die attach.



2022 Elektra Awards Winner!
Automotive Electronics Award - VE-Trac Direct SiC Modules

Features

- Direct Cooling with Integrated Pin-Fin Heatsink
- Silicon Nitride Isolator
- Tvj.max = 175°C for continuous operation
- Automotive Grade EliteSiC MOSFET Chip Technology
- Sintered Die Technology
- 6-pack Topology

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Applications

- Converter DC Battery Output to Power AC Traction Motors
- High Power DC-DC Converter

End Products

- Main Traction Inverter for Battery Electric Vehicle, Plug-in Hybrid Vehicles, and Full Hybrid Vehicles

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