

NXH008T120M3F2PTHG

Silicon Carbide (SiC) Module – EliteSiC, 8 mohm, 1200V, M3S, TNPC Topology, F2 Package

Product Overview

For complete documentation, see the data sheet.

The new T-type neutral point clamped converter (TNPC) module based on 1200V M3S Planer SiC MOSFETS is optimized for fast switching application. Planar technology works reliably with negative gate voltage drive and turn off spikes on the gate. This family has optimum performance when driven with 20V gate drive but also works well with 18V gate drive.

Features

- These Devices are PbFree, Halide Free and are RoHS Compliant
- 15V to 18V Gate Drive
- Excellent FOM [= $R_{DS(on)} * Eoss$]
- 8 mohm / 1200 V M3S SiC MOSFET TNPC

Applications

- DC-AC conversion
- DC-DC conversion
- AC-DC conversion

End Products

- UPS
- Energy Storage Systems
- Electric Vehicle Charging Stations
- Solar Inverters

Part Electrical Specifications

Product	Status	Compliance	Configuration	V_{BR} Max (V)	$R_{DS(on)}$ Typ (mΩ)	Application	Package Type	Case Outline	MSL Type	MSL Temp (°C)	Container Type	Container Qty.
NXH008T120M3F2PTHG	Active		Half-Bridge	1200	8	EV Charging, Energy Infrastructure	PIM29, 56.7x42.5 (PRESS FIT)	NA	0	BTRAY	20	