

CONSULT US TO GET
YOUR OWN
CUSTOM MODULE!

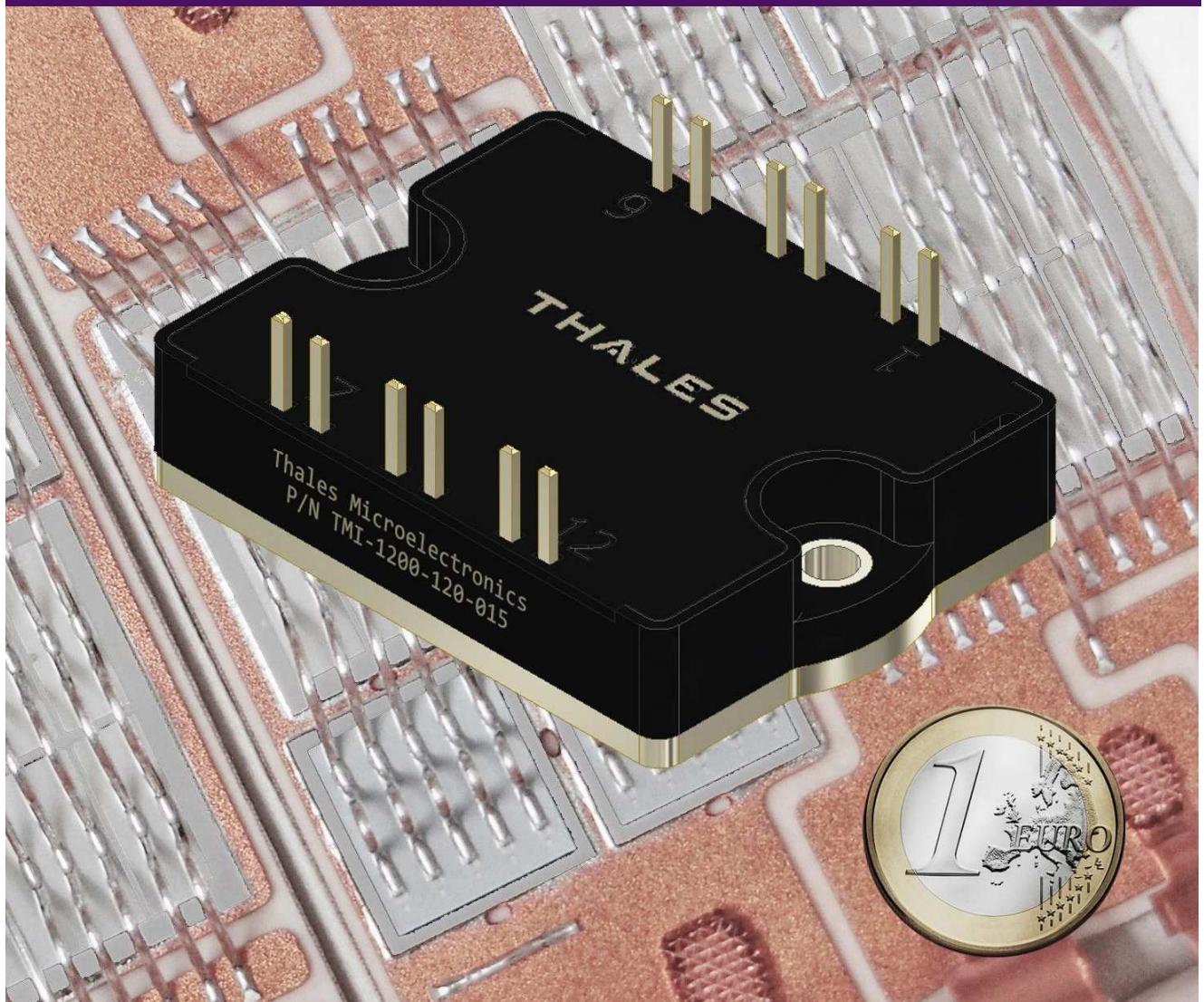
FIELD-PROVEN BENEFITS

Designed to operate in critical environments:

- Intensive power cycling
- Harsh mechanical constraints' resistive

Thales Microelectronics

High-reliability full SiC Phase Leg 1200V / 120A





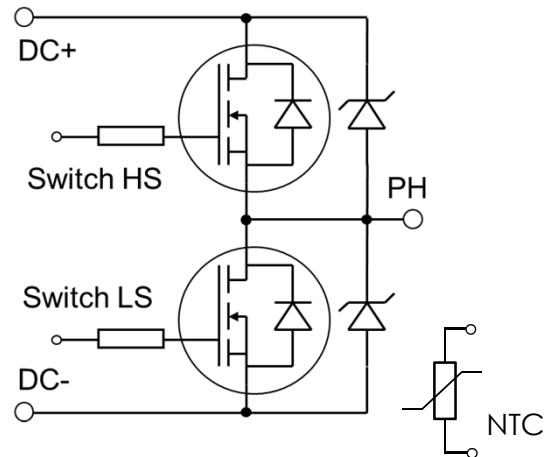
Full SiC Phase Leg 1200V / 120A

APPLICATIONS

- Motor drives
- High efficiency static converters/inverters
- Industrial and automotive traction drives

FEATURES

- SiC Mosfet and freewheeling SiC Schottky diode
- Fast switching, low loss
- High Power density
- Dimensions: 52x41x12mm



MAIN PERFORMANCES

(T_c @25°C unless otherwise specified)

Symbol	Parameter	Conditions	Value	Units
V _{DSS}	Maximum Drain-source voltage		1200	V
I _D	Maximum Continuous drain current	T _c = 25°C, T _j = 150°C	120	A
P _D	Maximum power dissipation		450	W
R _{DSON}	Drain to source typ. On resistance	T _j =25°C / V _{gs} = 20V	13	mΩ
T _{sw}	Switching time	R _{g_ext} = 5Ω	< 50	ns
R _{th j-c}	Junction to case thermal resistance	copper baseplate	0,29	K/W
T _j	Operating junction temperature		150	°C
T _{j max}	Absolute max. junction temperature		175	°C
Dim	Overall footprint dimensions		50 x 40	mm ²