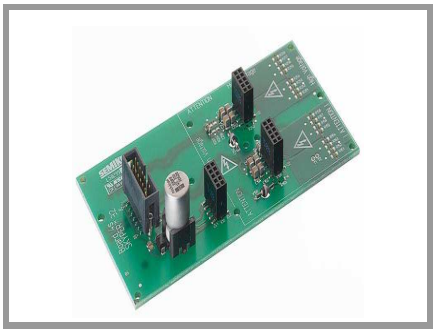
Board 4S SKYPER 32 R Gold



SKYPER®

Adaptor board

Order Nr. L5063001

Board 4S SKYPER 32 R Gold

Features

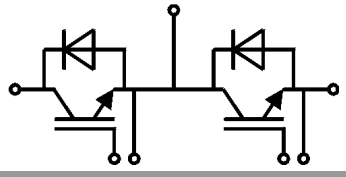
- Two output channels
- Gold nickel finish
- Failure management

Typical Applications*

- Adaptor board for SKYPER 32 IGBT drivers in bridge circuits for industrial applications
- PCB with gold plating
- DC bus up to 1000V

Remarks

- With external high voltage diode
- Please Note: the insulation test is not performed as a series test at SEMIKRON and must be performed by the user
- According to VDE 0110-20
- Output charge can be expanded to 6,3µQ with boost capacitors
- Insulation coordination in compliance with EN50178 PD2
- Operating temperature is real ambient temperature around the driver core
- Degree of protection: IP00



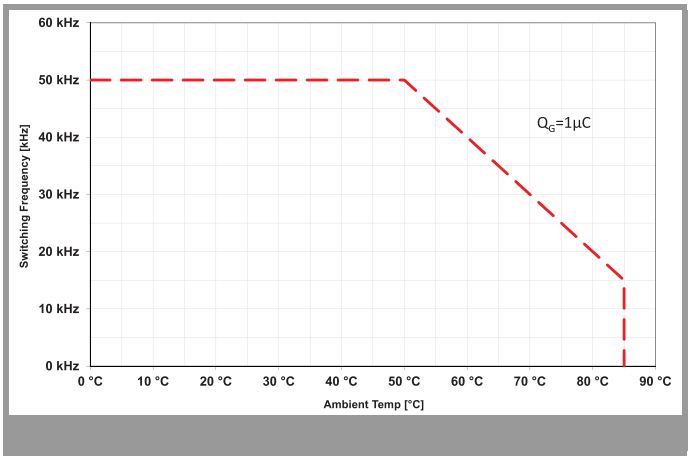
Adaptor board

Absolute Maximum Ratings

Symbol	Conditions	Values	Unit
V_s	Supply voltage primary	16	V
$Iout_{PEAK}$	Output peak current	15	A
$Iout_{AVmax}$	Output average current	50	mA
f_{max}	Max. switching frequency	50	kHz
V_{CE}	Collector emitter voltage sense across the IGBT	1700	V
$V_{isol\ IO}$	Insulation test voltage input - output (AC, rms, 2s)	4000	V
V_{isolPD}	Partial discharge extinction voltage, rms, $Q_{PD} \leq 10pC$	1200	V
V_{isol12}	Insulation test voltage output 1 - output 2 (AC, rms, 2s)	1500	V
$R_{Gon\ min}$	Minimum rating for external R_{Gon}	1.5	Ω
$R_{Goff\ min}$	Minimum rating for external R_{Goff}	1.5	Ω
T_{op}	Operating temperature	-40 ... 85	°C
T_{stg}	Storage temperature	-40 ... 85	°C

Characteristics

Symbol	Conditions	min.	typ.	max.	Unit
V_s	Supply voltage primary side	14.4	15	15.6	V
V_i	Input signal voltage on / off		15 / 0		V
V_{IT+}	Input threshold voltage (HIGH)			12.3	V
V_{IT-}	Input threshold voltage (LOW)	4.6			V
$V_{G(on)}$	Turn on output voltage		15		V
$V_{G(off)}$	Turn off output voltage		-7		V
$t_{d(on)IO}$	Input-output turn-on propagation time		1.1		µs
$t_{d(off)IO}$	Input-output turn-off propagation time		1.1		µs



This is an electrostatic discharge sensitive device (ESDS), international standard IEC 60747-1, chapter IX.

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