

# Board 4S SKYPER 32 PRO R



**SKYPER®**

## Adaptor board

Order Nr. L5062701

## Board 4S SKYPER 32 PRO 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

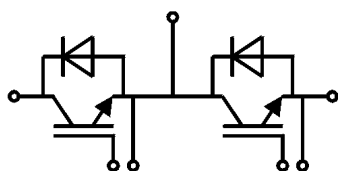
- With external high voltage diode
- Please Note: the insulation test is not performed as a series test at SEMIKRON and must be performed by the user
- According to VDE 0110-20
- Insulation coordination in compliance with EN50178 PD2
- Operating temperature is real ambient temperature around the driver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

### Absolute Maximum Ratings

Symbol	Conditions	Values	Unit
$V_s$	Supply voltage primary	16	V
$I_{outPEAK}$	Output peak current	15	A
$I_{outAVmax}$	Output average current	50	mA
$f_{max}$	Max. switching frequency	50	kHz
$V_{CE}$	Collector emitter voltage sense across the IGBT	1700	V
$V_{isolIO}$	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	$\Omega$
$R_{Goff min}$	Minimum rating for external $R_{Goff}$	1.5	$\Omega$
$T_{op}$	Operating temperature	-40 ... 85	$^{\circ}C$
$T_{stg}$	Storage temperature	-40 ... 85	$^{\circ}C$

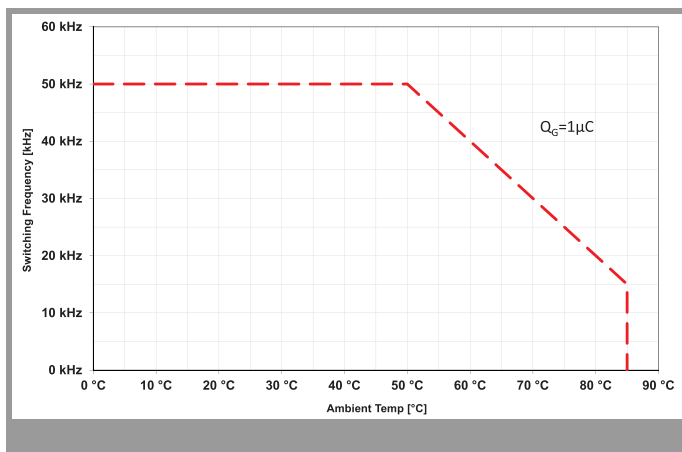
### Characteristics

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		1.2		$\mu s$
$t_{d(off)IO}$	Input-output turn-off propagation time		1.2		$\mu s$



Adaptor board

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

## \*IMPORTANT INFORMATION AND WARNINGS

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