

SKiiP3 F-Option



Fiber Optic Adapter

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Features

- Fiber optic link for SKiiP3 GB Types
- Transmits the PWM control signals from the controller to SKiiP3 driver
- Transmits error signal from SKiiP3 driver to controller
- Transmits analogue signals (temperature, current, DC-Link voltage) from SKiiP3 driver to controller
- PCB coated with varnish
- RoHS compliant

Typical Applications*

- Harsh EMI environment

Remarks

For further information please refer to Technical Explanation SKiiP3 F-Option Board and SKiiP3 Technical Explanation

Footnotes

¹⁾ Supply voltage for SKiiP

²⁾ Operation temperature is ambient temperature around the board. Please note: by operation temperature near 70°C the life time of the product is reduced

³⁾ Additional current consumption for F-Option Board

⁴⁾ See HFBR-0501 series technical data for specific characteristics and conditions

Absolute Maximum Ratings			
Symbol	Conditions	Values	Unit
V_{S2}	Power supply ¹⁾	13 ... 30	V
T_{op}	Operating temperature ²⁾	0 ... 70	°C
T_{stg}	Storage temperature	-40 ... 75	°C

Characteristics					
Symbol	Conditions	min.	typ.	max.	Unit
V_{S2}	Power supply	13	24	30	V
I_{S0}	Supply current (no load) ³⁾ @ 24V		15		mA
I_{S2}	Supply current (max load) ³⁾ @ 24V		50		mA
$t_{d(on)IO}$	Input-output turn-on signal propagation time		0.17		µs
$t_{d(off)IO}$	Input-output turn-off signal propagation time		0.27		µs
$t_{d(err)}$	Error input-output propagation time		10		µs
I_{Fdc}	Transmitter current ⁴⁾		53		mA
λ_{PEAK}	Peak emission wave length		660		nm
w	weight with housing		33		g
HxWxD	Dimensions		30x86x53		mm

	Type	Function
Optical receiver	HFBR-2521	Input signal for gate driver
Optical transmitter	HFBR-1521	Handling error messages from driver to controller

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

* The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON products in life support appliances and systems is subject to prior specification and written approval by SEMIKRON. We therefore strongly recommend prior consultation of our staff.