

# Single Frequency Erbium Fiber Laser

## EFL-SLM series

2006-08-24 - v1.0

Applications: Instrument for R&D labs and components testing  
 Form factor: BT type N  
 product reference: KPS-STD-BT-EFL-1550-SLM-05-xxx-yy-zz



### Optical Specifications:

	Conditions	Unit	SLM-005	SLM-01	SLM-05	SLM-10	SLM-20	SLM-30	SLM-40	SLM-50		
<b>Mode of operation</b>			CW									
<b>Nominal output power</b>		W	0,05	0,1	0,5	1	2	3	4	5		
<b>Central wavelength.</b>	vaccum	nm	1550 +/- 1									
<b>Input/Interstage isolation</b>			Yes									
<b>Output isolation</b>			Yes					No				
<b>Output monitoring</b>			Yes									
<b>Piezzo tuning</b>			Option									
<b>Wl. Tunability</b>			With T°: min: 20GHz; With PZT: min: 200MHz									
<b>Control Mode</b>			ACC, APC									
<b>APC Pw. Tunability</b>		%	55-100									
<b>APC Pw. Stability</b>	8h, 25°C	%rms	max: 3									
<b>Linewidth</b>	FWHM	KHz	max: 100									
<b>M<sup>2</sup></b>	LP01		max: 1.1									

### Optical Interface:

	SLM-005	SLM-01	SLM-05	SLM-10	SLM-20	SLM-30	SLM-40	SLM-50	
<b>Output termination options</b>	FA, SA, FP, SP		FA, SA, FP, SP, Col, E2PS, B			Col, E2PS, B			
<b>Output pigtail</b>	SMF28, Front-panel		SMF28, 3mm, PVC, 1m						
<b>External fiber restriction</b>	No connexion	50 m	10 m	5 m	2,5 m	No connexion			
<b>Backreflection</b>	-		Limited						
<b>Injected linewidth</b>	Limited								

### Electrical, Environmental and Packaging:

		Unit	BT type N
<b>Electrical Specification:</b>			
	AC Voltage	V	85 to 264 VAC, 47-63Hz
	Power Consumption	W	<200
	Interface		USB
<b>Environmental</b>			
	Operating Temperature	°C	From 15 to 35
	Storage Temperature	°C	From -20 to 55
	Warm up time	min	<30
<b>Dimension and Weight</b>			
	Dimensions Laser module	mm	360x480x90
	Weight	Kg	<5

### Options available:

- xxx = IN monitoring or PZT, ISO, APC / OUT monitoring options (see specifications)
- yy = non available
- zz = output termination option
- Other wavelengths

#### Connectors:

FA=FC/APC; SA=SC/APC; FP=FC/SPC; SP=SC/SPC  
 E2PS=E2000 HP + Patchcord for adaptation  
 Col=Collimated, for free-space use; B=Bare Fiber

All products comply with IEC 60825-1 and FDA (21 CFR Subchapter J) laser safety standards.

Keopsys undertakes a continuous and intensive product development program to ensure that its products perform to the highest technical standards. As a result, the specifications in this document are subject to change without notice.



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