

# 1.0µm Single Mode Longitudinal (SLM) CW Ytterbium Fiber Laser



## KPS-BT2-SLM-YFL and KPS-OEM-SLM-YFL Series

Designed in a Master Oscillator Power Fiber Amplifier (MOPFA) architecture with a very stable Distributed Feedback fiber laser source. This combines narrow linewidth (< 100kHz) with high output power. An input for error feedback signal is available for external frequency locking.

### Features

- Saturated output power up to 5W
- Narrow linewidth <100kHz
- Long term stability: <5% over 8 hours at 25°C in APC mode
- Tuning by temperature or piezo control
- Automatic Current Control (ACC)
- Automatic Power Control (APC) up to 4W for non-PM version
- GPIB and RS-232 interface

### Applications

- Spectroscopy
- Gas sensing
- Lidar
- Coherent detection
- Non-linear optics

OPTICAL SPECIFICATIONS	TYPICAL VALUES	UNIT	NOTES
Mode of Operation	CW		
Operating Wavelength Range	1050 - 1110	nm	Single wavelength operation
Saturated Output Power	up to 5	W	TEM00 output up to 4W
Output Power Scaling	95	%	
Output Power Stability	< 3	%	in APC at 25°C
State of Polarization	Random		
Laser Linewidth	< 100	kHz	
Narrow Tuning Range	< 20	pm	Optional piezo control
Broad Tuning Range	< 200	pm	Optional temperature control
PER	> 20	dB	for PM version only

### Benchtop

ELECTRICAL	TYPICAL VALUES	UNIT	NOTES
AC Voltage	85-264	V	47-63Hz
Power consumption	< 250	W	Depends on output power
<b>GENERAL</b>			
Operating Temperature	+15 / +35	°C	
Storage Temperature	-20 / +55	°C	
Size	88 x 448 x 446	mm	
Fiber Type	SMF PM0.98		Collimated output above 4W for PM version

### OEM

ELECTRICAL	TYPICAL VALUE	UNIT	NOTES
DC Voltage	12-32	V	
Power consumption	< 250	W	Depends on output power
<b>GENERAL</b>			
Operating Temperature	+5 / +45	°C	
Storage Temperature	-20 / +55	°C	
Size	65 x 305 x 185	mm	Depends on output power
Fiber Type	SMF PM0.98		Collimated output above 4W for PM version

#### ORDERING INFORMATION

KPS-BT2-SLM-YFL-www-xx-FA  
KPS-BT2-SLM-YFL-www-xx-PM-FA

www: wavelength  
xx=Output power in tenth of Watts

FA=FC/APC  
(other connectors available upon request)

#### ORDERING INFORMATION

KPS-OEM-SLM-YFL-www-xx-FA  
KPS-OEM-SLM-YFL-www-xx-PM-FA

www: wavelength  
xx=Output power in tenth of Watts

FA=FC/APC  
(other connectors available upon request)