

Single-Frequency Fiber Laser 1550nm Center Wavelength



PRODUCT DATASHEET

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1550nm, 10W Single Mode CW Fiber Laser



The model CKLS-1550B single mode CW fiber laser from Techwin is a 1550nm, Yb-doped fiber laser system which combines an excellent beam profile with high CW output power capability. These fiber lasers are based on an all-fiber design structure and utilize double cladding fiber pumping technology. The output power is user adjustable up to 10 watts. The diffraction limited beam profile is achieved even at the maximum CW power level. These lasers are widely used in research and development applications as well as component testing.

The model CKLS-1550B CW fiber laser employs a microprocessor based control system which is designed to precisely control the pump laser stage and other components to deliver high stability, a long lifetime and maintenance free operation. The simple to operate front panel LCD offers the user real-time control of the CKLS-1064 . The user has immediate access to all of the control parameters, including the operating state of the laser, the output power, the temperature and any alarm or warning conditions.

Features:

- High output power
- Excellent beam quality
- High Stability and reliable performance
- Single-mode output, PM optional

Applications:

- Test and measurement
- Scientific research
- Spectroscopy

Parameter	Unit	Specifications		
		Min	Typ.	Max
Part No.		CKLS-1550-B		
Center wavelength	nm	-	1550	-
Output power ¹	W	0.5	-	20
Output power adjustment range	%	10	-	100
Spectral width ² (FWHM)	MHz	0.1	-	-
Side Mode Suppression Ratio	dB	35	-	-
Beam quality	M ²	<1.1		
Operation Mode		CW		
Output polarization		Radom(PM optional)		
Stability of output power (15min) ³	%	-	±0.5	±1.0
Stability of output power (8h) ³	%	-	±1	±2
Light isolation	dB	35	-	-
Return Loss	dB	40	-	-
Operating temperature	°C	-25	-	50
Storage temperature	°C	-40	-	85
Operating voltage	VAC	170	220	260
Output fiber type ⁴		SMF-28 Single mode fiber		
Length of output fiber	m	> 1		
Output mode		FC/APC(other options available)		

Techwin (China) Industry Co., Ltd

Dimension	mm	420(L)×485(W)×105(H)
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1. output power is optional, typical output power: 0.5W、1W、2W、5W、10W;
2. spectral width on request;
3. The output power stability is measured under 25°C, 30 minutes after warm-up;
4. PM fiber is optional.

Ordering information:

CKLS-1550-B-<PW>

B: Benchtop

PW: Output power in W, 0.5-0.5W, 2-2W