

## AEO PFCLS-Series Precise Fiber Coupled Laser Source Specification

Series No.	Key performance Features	Application
PFLS-785-500	<ul style="list-style-type: none"> <li>• Narrow Line width &lt; 0.1nm.</li> <li>• High Power Laser Source up 500 mw.</li> <li>• Excellent wavelength stability <math>\pm 0.002</math> nm.</li> <li>• Excellent power stability <math>\pm 0.0</math> 1%.</li> <li>• Linear resolution output power tunable in full power range via knob on panel.</li> <li>• Fast laser light emission turn on/ off through panel push button, meanwhile keeping internal temperature control, maximum laser protection.</li> </ul>	<ul style="list-style-type: none"> <li>❖ Raman Spectrometer Laser Source</li> <li>❖ Research and development</li> <li>❖ Scientific application.</li> <li>❖ University Lab.</li> </ul>
PFLS-980-20 PFLS-1310-100 PFLS-1480-100 PFLS-1550-120	<ul style="list-style-type: none"> <li>• Excellent power stability <math>\pm 0.0</math> 1%.</li> <li>• Linear resolution output power tunable in full power range via knob on panel.</li> <li>• Fast laser light emission turn on/ off through panel push button, meanwhile keeping internal temperature control, maximum laser protection.</li> </ul>	<ul style="list-style-type: none"> <li>❖ Telecommunications</li> <li>❖ Raman Spectrometer Laser Source</li> <li>❖ Technology Company R&amp;D Lab.</li> <li>❖ Scientific application.</li> <li>❖ University Lab.</li> </ul>

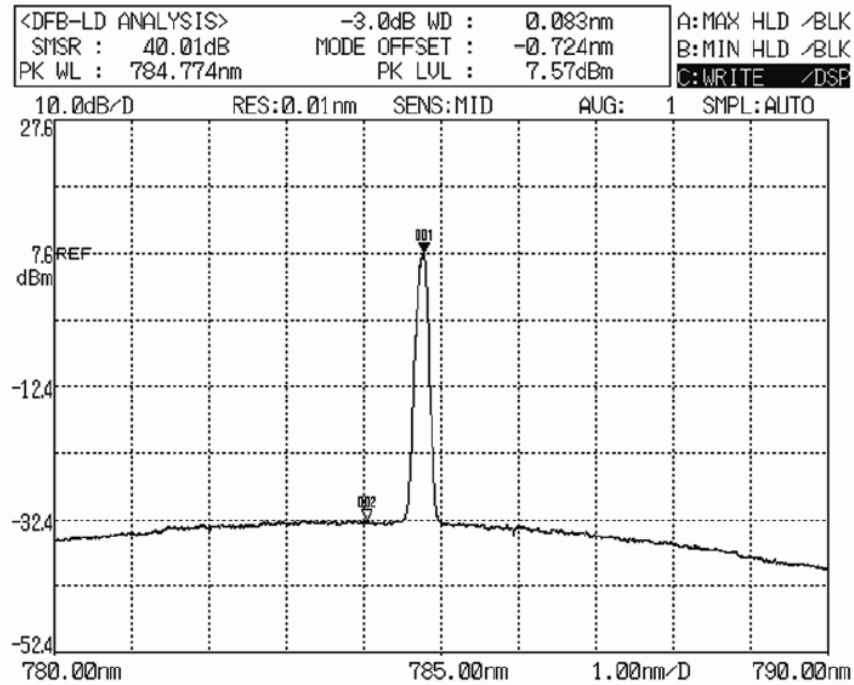
<b>Common Specifications</b>				
Optical Parameters	Minimum	Typical	Maximum	Note
Wavelength	785,980,1310,1480,1550 nm			Users Select
Spectral line width	0.07nm	0.1nm	0.25nm	785 nm laser
Laser light output power	0	500 mw	500mw	Users Select
Light output stability	15 min:±0.01% 24hr: ±0.05 %			
Adjustment range	0	500 mw	510 mw	
Optical	Minimum	Typical	Maximum	note
Fiber type		Single, Multimode		Users Select
Fiber coupler connector		FC/PC		
Output Display		mW/dbm		
Electrical Parameters				
AC Input		115/230 VAC 50 - 60 Hz		Jumper selection
Power Consumption	1w	5W	6w	
Communication Interface		RS232/USB		optional
Communication protocols		ASCII code		
Inter lock		External Switch		optional

Power tune resolution	0.1dbm	0.1 dbm	0.5dbm	
External modulation		sinusoidal wave AC 0~1V /0~1000hz		optional
TEC Cooler stability		25°C ± 0.01°C		
Reliability				
Storage Temperature		-10~70 °C		
Operating Temperature		-10~50 °C		
Mechanical parameters				
Dimension		8.661" L x 6.496" W (219.99mm x 165.00mm) X 2.028" (51.51mm)		
Enclosures material		Metal Aluminum		
Weight		1.8 KG		

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Series No.		PFLS-785-500	PFLS-980-20	PFLS-1480-100	PFLS-1310-100	PFLS-1550-120
Wavelength ( nm)	Minimum	784.5	978	1478	1305	1495
	Typical	785	980	1480	1310	1550
	Maximum	785.5	985	1485	1315	1556
Power tune resolution (dbm)	Typical	0.01	0.001	0.005	0.005	0.005
Output Light Power(mW)	Maximum	0	0	0	0	0
	Typical	500	20	100	100	120

Laser Power Stability (dbm)	15 minutes	<0.01	<0.005	<0.01	<0.01	<0.01
	24 hours	<0.025	< 0.010	<0.028	<0.027	<0.035



**Typical 785 nm SS Laser Spectrum (SMSR > 40 dB)**