

1570nm wavelength single mode fiber coupled laser 10 dBm



● Product Description

The 1570nm single-wavelength laser uses a high-performance butterfly-shaped semiconductor laser chip. Professionally designed drive and temperature control circuits ensure the safe operation of the laser, stable output power and spectrum. It is suitable as a pump laser source for thulium-doped fiber lasers or fiber amplifiers, and can be provided in desktop or modular packages.

● Part Number

FL-1570-10-SM-B

● Product features

1~10W multiple powers、Single-mode fiber output、Multiple spectrum options

● Application area

Thulium-doped fiber laser、Fiber laser、Fiber sensor

Parameters

Parameter	Unit	Typical	Notes
Operating wavelength	nm	1570 ± 1	
Spectral linewidth	nm	< 0.1	
Side mode suppression ratio	dB	> 50	
Operating mode	-	CW	Continuous light
Output power	dBm	10/20/30/33/37/40	
Short-term stability (15 minutes)	dB	$\leq \pm 0.02$	Equivalent $\leq \pm 0.5\%$
Long-term stability (8 hours)	dB	$\leq \pm 0.05$	Equivalent $\leq \pm 1.2\%$
Pigtail type	-	SMF-28Fiber	
Pigtail connector type	-	FC/APC	

Electrical and environmental parameters	Benchtop	Module
Control mode	Button	RS232 Serial communication
Communication interface	Optional	DB9 Female
Power supply	100~240V AC,<150W	5V DC,<60W
Dimensions	260(W)×320(D)×120(H)mm	125(W)×150(D)×20(H)mm
Operating temperature range	$-5 \sim +35^{\circ} \text{C}$	
Operating humidity range	0~70%	

Ordering information / PN#				
FL	Operating wavelength(nm)	Output power(dBm)	Output pigtail type	Package method
	1570	10/20/30/33/37/40	SM= SMF-28 PM=PM1550	B=Benchtop M=Module *33~40dBmJust provide benchtop

Optical Spectrum of 1570nm Laser Source

