

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.



● Product features

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

● Part Number

MP-FCL-1570-10-SA-B

● Application area

Thulium-doped fiber laser、 Fiber laser、 Fiber sensor

● Core parameters

Operating wavelength	Output power	Pigtail connector type
1570nm	10 dBm	FC/APC

● General Parameters

Parameter

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	≤ ±0.02	Equivalent ≤ ±0.5%
Long-term stability (8 hours)	dB	≤ ±0.05	Equivalent ≤ ±1.2%



Parameter	Unit	Typical	Notes
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~+35°C	
Operating humidity range	0~70%	

Ordering information / PN#				
F	Operating wavelength(nm)	Output power(dBm)	Output pigtail type	Package method
L	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

