

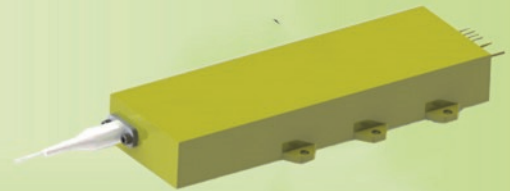


Pumping Source

976nm Diode Laser

Applications

Pumping Source for Fiber Laser and Solid-state Laser
Material Processing



	Typical Value						Units
Optical Parameters (25°C)							
Center Wavelength	976						nm
Center Wavelength Tolerance	±3						nm
CW Output Power	85	180	200	320	540	640	W
Spectral Width (90% of Power)	<6.0						nm
Wavelength Shift with Temperature	0.3						nm/°C
Feedback Protection(1030-1100nm)	>40						dB
Light within 0.16 NA	95%	95%	-	-	-	-	
Threshold Current	0.7	0.7	1.1	1.1	1.1	1.1	A
Operating Current	11.5	11.5	18.0	25.0	25	30	A
Operating Voltage	14.0	31.0	20.5	26.0	42.5	45	V
Slope Efficiency	7.4	16.3	10.2	17.4	22.0	22.0	W/A
Power Conversion Efficiency	50	50	50	50	50	50	%
Fiber Characteristics							
Core Diameter	105	105	135	135	200	200	μm
Numerical Aperture	0.22	0.22	0.22	0.22	0.22	0.22	-
Fiber Length	1.0						m
Fiber Connector ¹	Bare Fiber, SMA905, FC/PC						-
Accessories							
Monitor Photodiode	-	Optional	-	-	-	-	-
Package Model	CK	DK	C6	D3	D5	D5	-
Absolute Ratings							
Operating Temperature	+10~+40						°C
Operating Relative Humidity	<75						%
Storage Temperature	-20~+80						°C
Storage Relative Humidity	<90						%
Soldering Temperature, 10s max	<250						°C

¹ Customized fiber and connector available.

* Other wavelength: 900nm~980nm.