

976nm 10W Laser Diode Module

R976±10-10WF-02HBCK-R



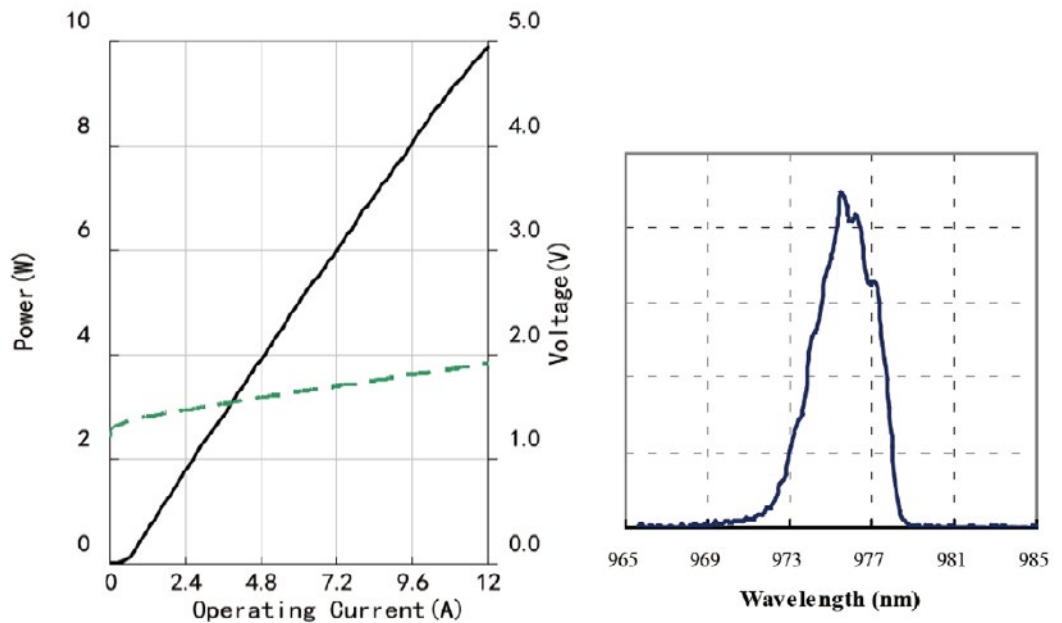
Features

Output power: 10W
Wavelength: 976±10nm
Fiber core: 105 μm
0.22NA
Feedback protection

Applications

Laser pumping
Material processing

976nm Characteristics (25°C)



Typical Device Performance(25°C)

Parameter	Symbol	Typical Value	Unit	
		R976±10-10WF-02HBCK-R		
Optical	CW Output Power	P _{op}	10	W
	Center Wavelength	λ _c	976±10	nm
	Spectral Width	Δλ	<6	nm
	Wavelength Shift with Temperature	Δλ / ΔT	0.35	nm/°C
	Feedback Protection	FP	>40	dB
Electrical	Threshold Current	I _{th}	0.70	A
	Operating Current	I _{op}	12.5	A
	Operating Voltage	V _{op}	1.9	V
	Slope Efficiency	η _{es}	0.8-1.0	W/A
Fiber	Fiber Core Diameter	d _{core}	105	μm
	Fiber Cladding Diameter	d _{clad}	125	μm
	Fiber Buffer Diameter	d _{buffer}	250	μm
	Numerical Aperture	NA	0.22	-
	Connector	-	FC/PC, SMA905, ST	-
	Length	L	100±10	cm

Other Parameters

Parameter	Operating Temperature /°C	Operating Relative Humidity /%	Storage Temperature /°C	Storage Relative Humidity /%	Lead Soldering Temperature(10s max/°C)
Min	10	-	-20	-	-
Max	30	75	70	90	250

Package Dimensions (mm)

Pin	Function
1	Laser(+)
2	Laser(-)

