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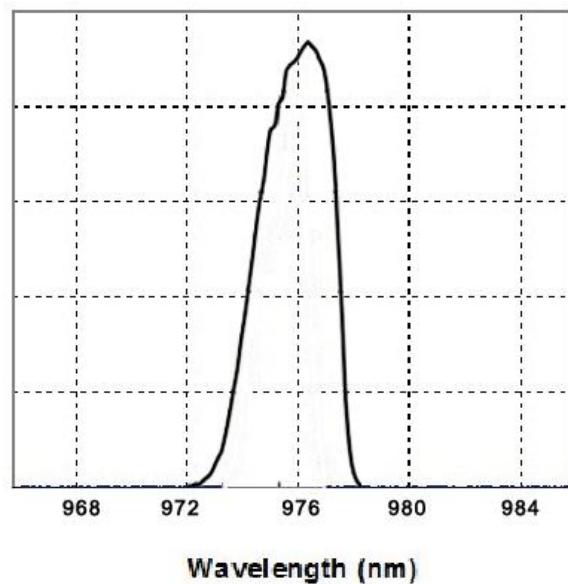
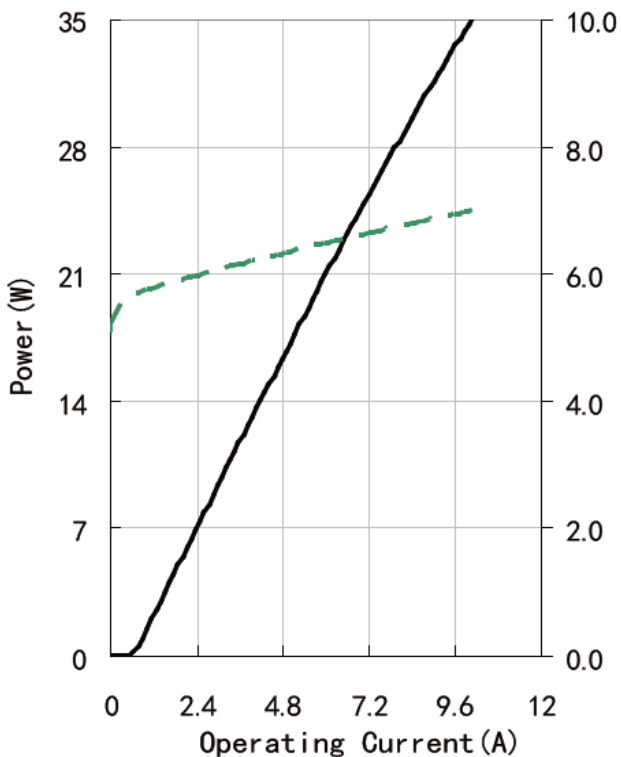
976nm 30W Laser Diode Module

R976±5-30WD-R4-PFS



Feature
Output power: 30W
Wavelength: 976±5nm
Fiber core: 200 μm, 0.22NA
Application
Medical use

976nm Characteristics (25°C)



Typical Device Performance(25°C)

Parameter	Symbol	Typical Value		Unit
		R976±5-30WD-R4-PFS		
Optical	CW Output Power	P_{op}	30	W
	Center Wavelength	λ_c	976±5	nm
	Spectral Width	$\Delta\lambda$	<6.0	nm
	Temperature drift of wavelength	$\Delta\lambda / \Delta T$	0.35	nm/°C
Aiming Beam	Output Power	P_a	2	mW
	Wavelength	λ_a	650±10	nm
	Voltage	V_a	2.2	V
Electrical	Threshold Current	I_{th}	0.65	A
	Operating Current	I_{op}	12	A
	Operating Voltage	V_{op}	5.1	V
	Slope Efficiency	η_{es}	2.7	W/A
Fiber	Fiber Core Diameter	d_{core}	200	μm
	Numerical Aperture	NA	0.22	-
	Connector	-	SMA905	-

Other Parameters

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

Package Dimensions (mm)

Pin	Function
1	Laser (+)
2	Laser (-)
3	FCD LED (-)
4	FCD LED (+); FCD PD(N)
5	FCD PD(P)
6	Aiming Beam LD(+);[DC 2.2V]; PD(N)
7	Aiming Beam LD(-);[GND]
8	PD(P)
9	Thermistor
10	Thermistor

