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980nm 3W Laser Diode Module

R980±10–3WD–8BULT–PFS



Feature

Output power: 3W

Wavelength: 980±10nm

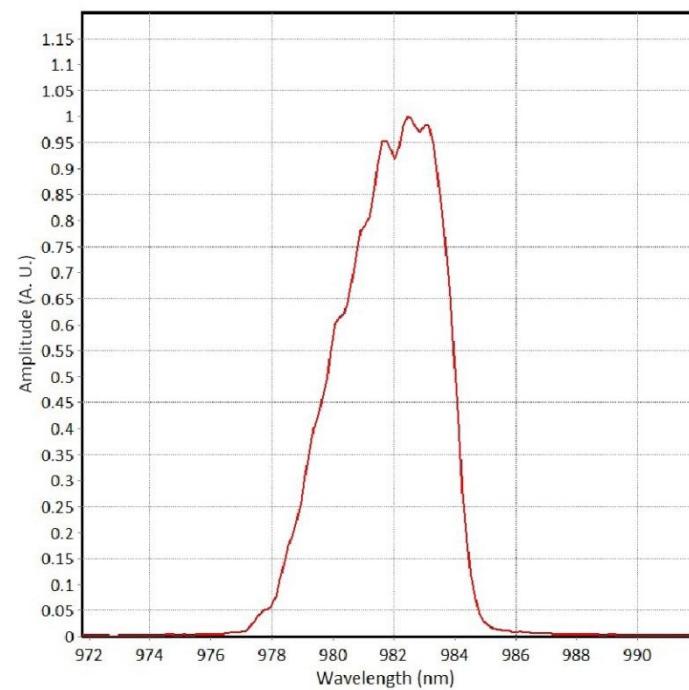
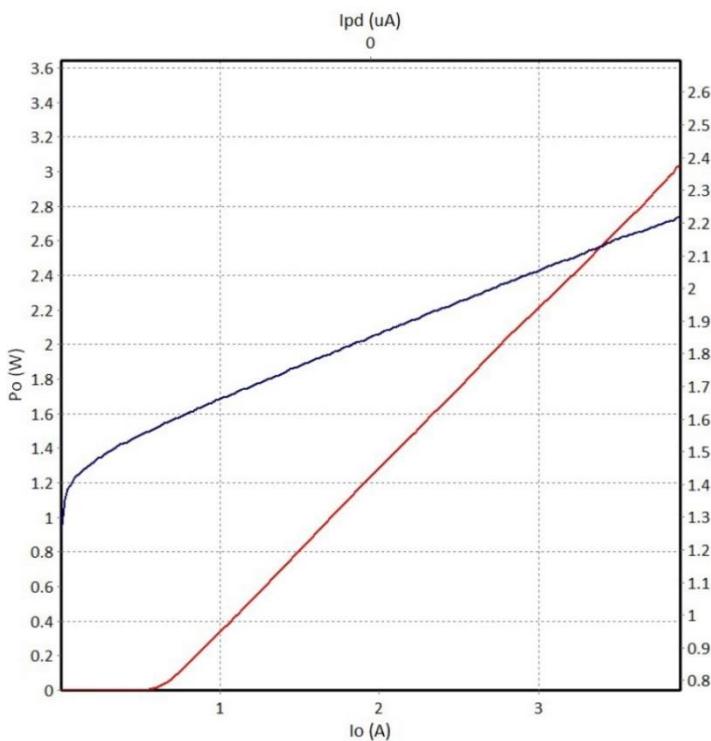
Fiber core: 200 μm, 0.22NA

Aiming beam: 650nm

Application

Medical use

980nm 3mW Characteristics (25°C)



Typical Device Performance(25°C)

Parameter		Symbol	Typical Value		Unit
			R980±10–3WD–8BULT–PFS		
Optical	CW Output Power	P _{op}	3		W
	Center Wavelength	λ _c	980±10		nm
	Spectral Width	Δλ	≤6		nm
	Temperature drift of wavelength	Δλ /ΔT	0.3		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}	0.64		A
	Operating Current	I _{op}	3.85		A
	Operating Voltage	V _{op}	2.21		V
	Slope Efficiency	η _{es}	0.93		W/A
	Thermistor	R _t	10±5%/3450		kΩ/β(25°C)
Fiber	Fiber Core Diameter	d _{core}	200		μm
	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	FCD PD(P)
2	Thermistor
3	Aiming Beam LD
4	Aiming Beam LD
5	Laser(-)
6	FCD PD(N); Case
7	Laser(+)
8	Thermistor

