



Electro Optical Components, Inc.

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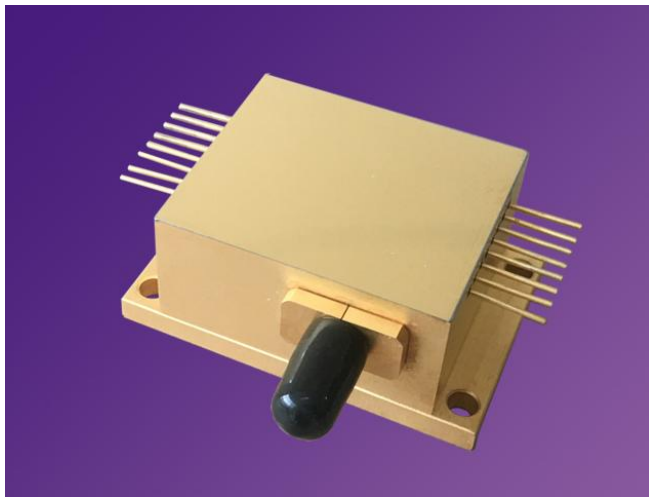
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808&980nm 15&15W Dual Wavelength Laser Diode Module

R808/980±10-15/15WD-R4W-PFS



Feature

Output power: 15W@808nm
15W@980nm

Wavelength: 808±10nm;980±10nm

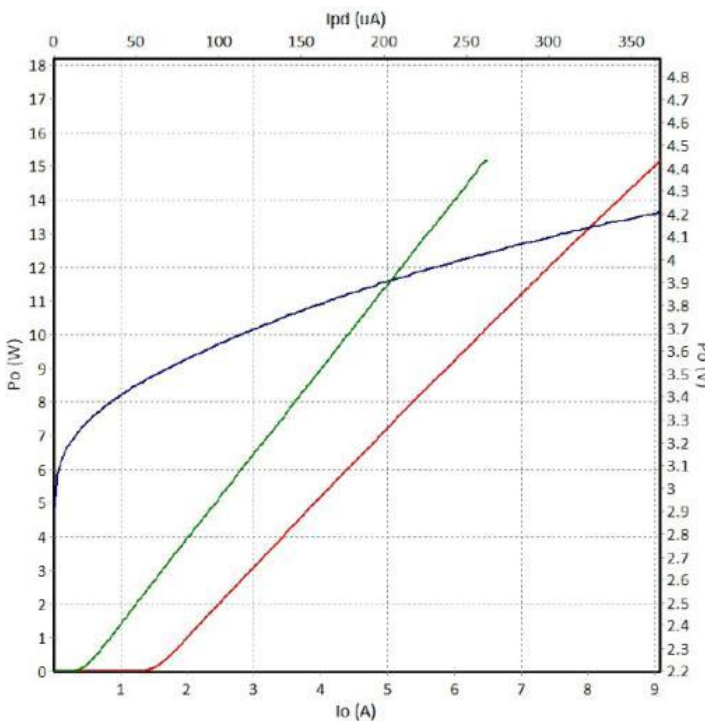
Fiber core: 400µm, 0.22NA

Application

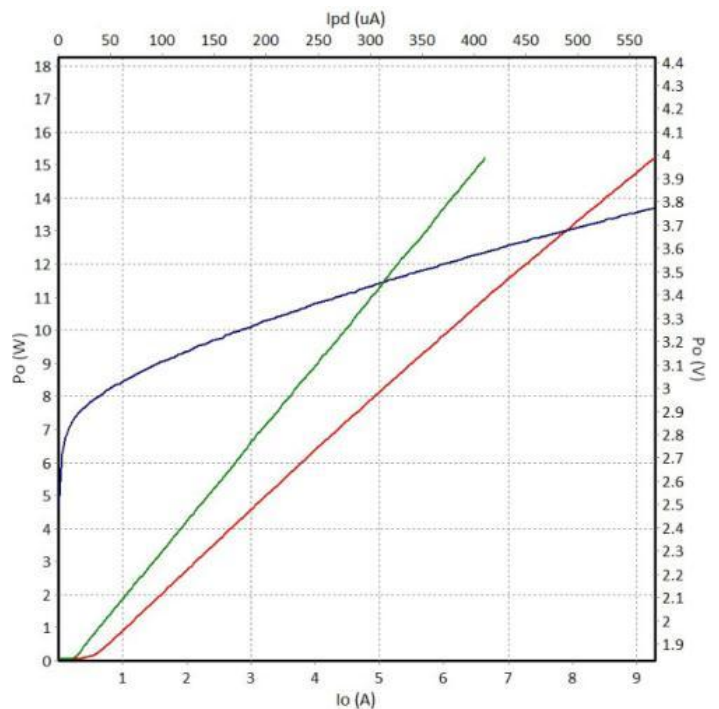
Medical use

Material processing

808nm&980nm Characteristics (25°C)



808nm



980nm

Typical Device Performance(25°C)

Parameter		Symbol	Typical Value		Unit
			R808/980±10-15/15WD-R4W-PFS		
Optical	CW Output Power	P_{op}	15@808nm	15@980nm	W
	Center Wavelength	λ_c	808±10	980±10	nm
	Spectral Width	$\Delta\lambda$	<6		nm
	Temperature drift of wavelength	$\Delta\lambda / \Delta T$	0.3		nm/°C
Aiming Beam	Output Power	P_a	2		mW
	Wavelength	λ_a	650±10		nm
	Voltage	V_a	2.2,5.0		V
Electrical	Threshold Current	I_{th}	1.54	0.54	A
	Operating Current	I_{op}	9.5	10.5	A
	Operating Voltage	V_{op}	4.20	3.76	V
	Slope Efficiency	η_{es}	1.9	1.5	W/A
	PD current	I_{PD}	<3000		μA
	Thermistor	R_t	10±5%/3450		kΩ/β(25°C)
Fiber	Fiber Core Diameter	d_{core}	400		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]; PD(N)
7	Aiming Beam LD(-);[GND]
8	PD(P)
9	Thermistor
10	Thermistor

