



Electro Optical Components, Inc.

5460 Skylane Boulevard, Santa Rosa, CA 95403

Toll Free: 855-EOC-6300

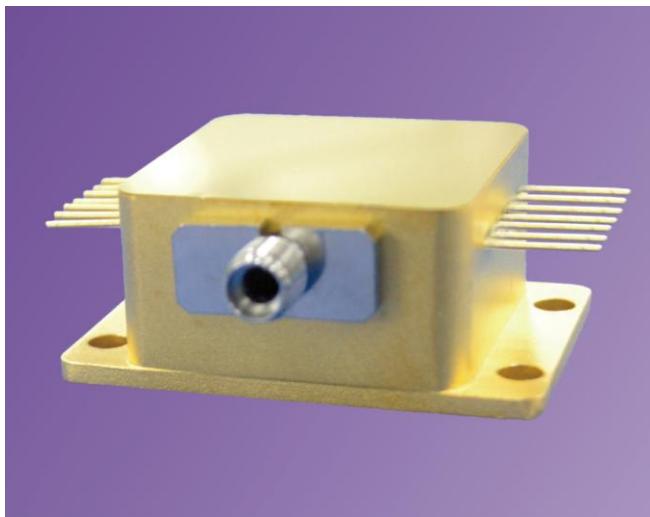
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808nm 9W Laser Diode Module

R808±10-9WD-14HHL-PTFS



Feature

Output power: 9W

Wavelength: 808±10nm

Fiber core: 400 µm, 0.22NA

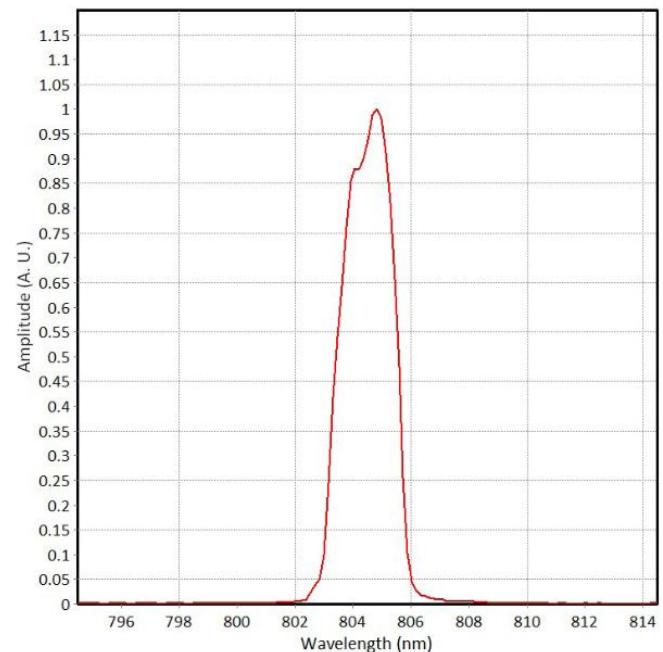
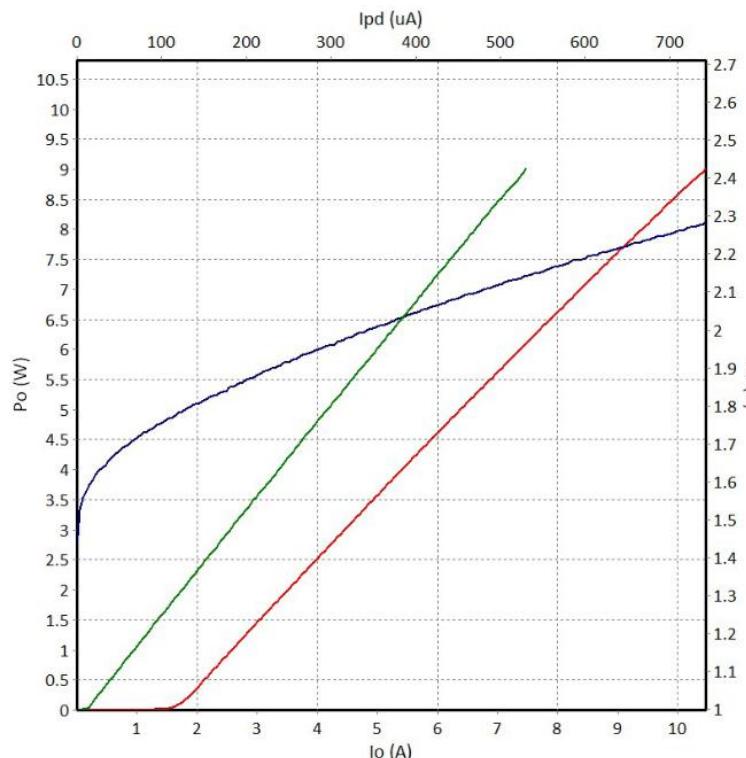
Aiming beam: 650nm

Application

Medical use

Material processing

808nm 9W Characteristics (25°C)



Typical Device Performance(25°C)

Parameter		Symbol	Typical Value		Unit
			R808±10–9WD–14HHL–PTFS		
Optical	CW Output Power	P _{op}	9		W
	Center Wavelength	λ _c	808±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	2.2,5.0		V
Electrical	Threshold Current	I _{th}	1.68		A
	Operating Current	I _{op}	10.46		A
	Operating Voltage	V _{op}	2.28		V
	Slope Efficiency	η _{es}	1.03		W/A
	PD Current	I _{PD}	<3000		μA
	Thermistor	R _t	10±5%/3450		kΩ/β(25°C)
	TEC Max Current	I _{tmax}	6.0		A
	TEC Max Voltage	V _{tmax}	9.8		V
Fiber	Fiber Core Diameter	d _{core}	400		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	80	70	250(10Sec.)

Package Dimensions (mm)

Pin	Function	Pin	Function
1	Case	8	TEC(-)
2	Laser(+)	9	FCD PD(P)
3	Thermistor	10	FCD LED(-)
4	Thermistor	11	FCD LED(+);FCD PD(N)
5	Laser(-)	12	Aiming Beam LD(+);[DC 5V]
6	PD(P)	13	Aiming Beam LD(-);[GND]
7	PD(N)	14	TEC(+)

