



Electro Optical Components, Inc.

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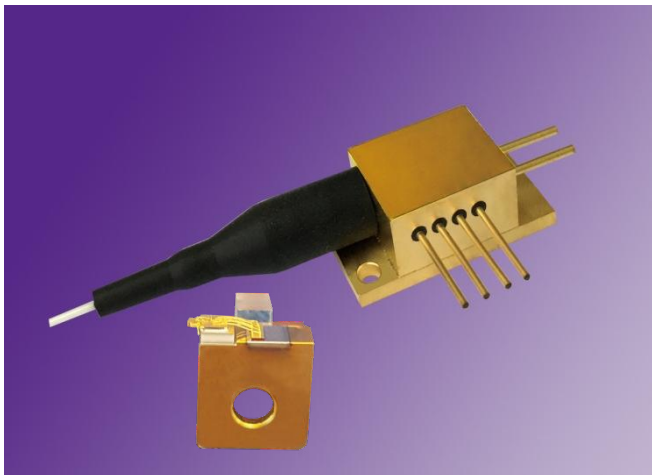
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808nm 3W Narrow Linewidth Laser Diode Module

R808±0.5-3WF-R6-G

R808±0.5-4WW-CM-G



Feature

Output power: 3W

Wavelength: 808±0.5nm

Fiber core: 105µm, 0.22NA

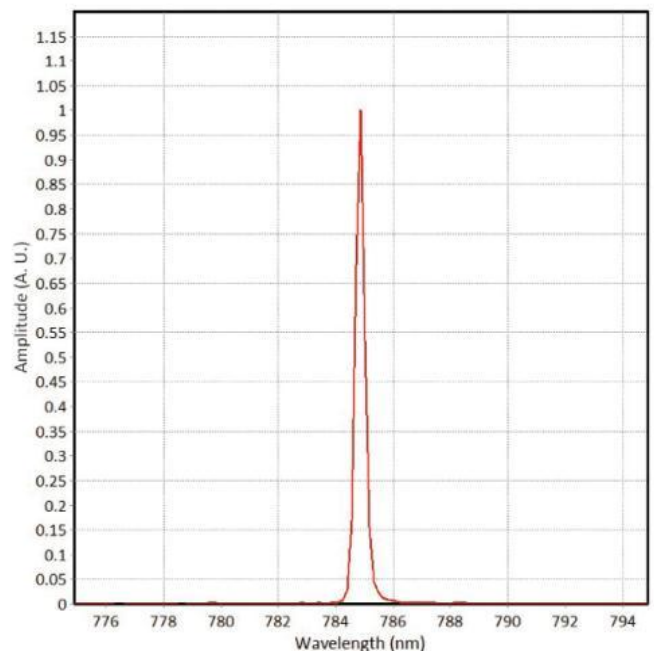
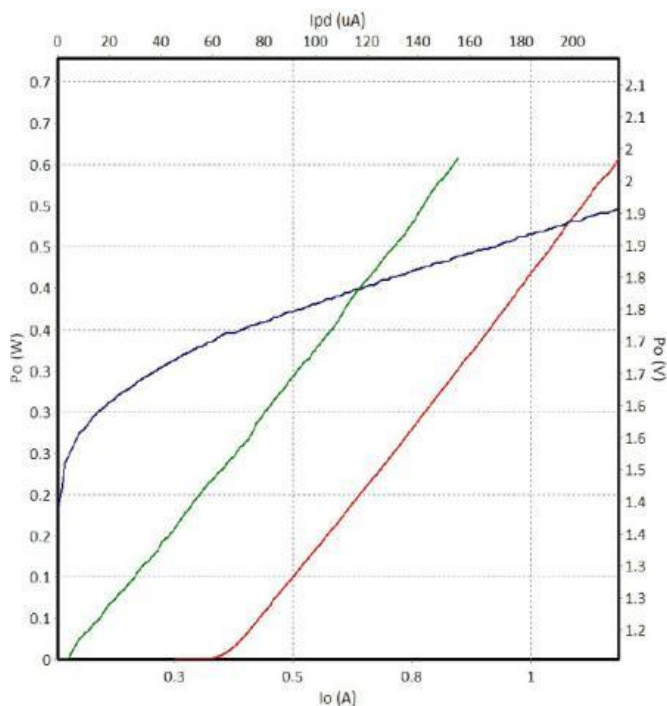
Free space output optional

Application

Science

Laser pumping

808nm 3W Characteristics (25°C)



Typical Device Performance(25°C)

Parameter		Symbol	Typical Value		Unit
			R808±0.5-3WF-R6-G	R808±0.5-4WW-CM-G	
Optical	CW Output Power	P_{op}	3	4	W
	Center Wavelength	λ_c	808±0.5		nm
	Spectral Width	$\Delta\lambda$	<0.5		nm
	Temperature drift of Wavelength	$\Delta\lambda / \Delta T$	0.01		nm/°C
Electrical	Threshold Current	I_{th}	0.64	0.65	A
	Operating Current	I_{op}	4.0	4.62	A
	Operating Voltage	V_{op}	1.9	1.92	V
	Slope Efficiency	η_{es}	0.9	1.0	W/A
	PD current	I_{PD}	<2000	-	μA
	Thermistor	R_t	10±5%/3450	-	kΩ/β(25°C)
Fiber	Fiber Core Diameter	d_{core}	105	-	μm
	Fiber Clad Diameter	d_{clad}	125	-	μm
	Fiber Buffer Diameter	d_{buffer}	250	-	μm
	Numerical Aperture	NA	0.22	-	-
	Connector	-	FC/PC,ST,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	Thermistor
4	Thermistor
5	PD(N)
6	PD(P)

