



**Electro Optical Components, Inc.**

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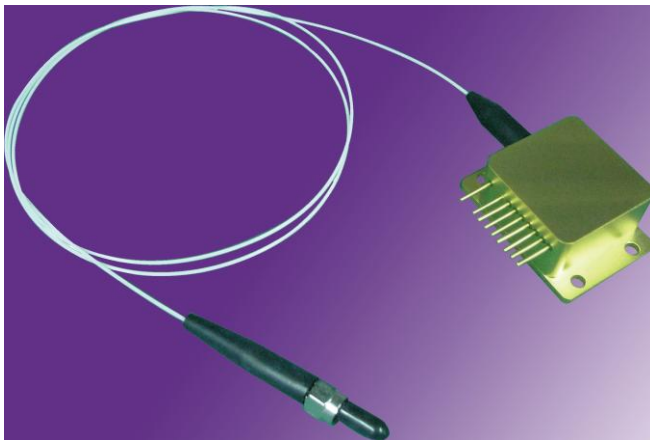
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## 808nm 6W Laser Diode Module

R808±10-6WF-09HHL-T



### Feature

Output power: 6W

Wavelength: 808±10nm

Fiber core: 105 μm, 0.22NA

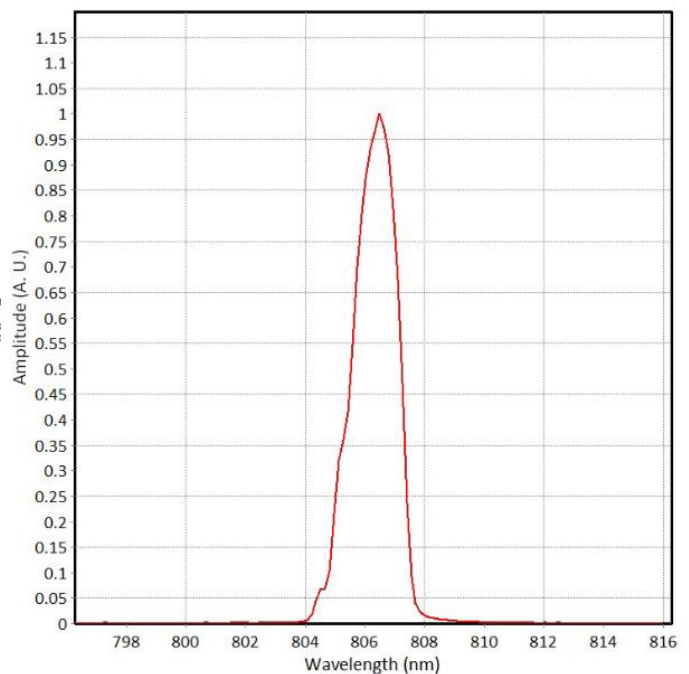
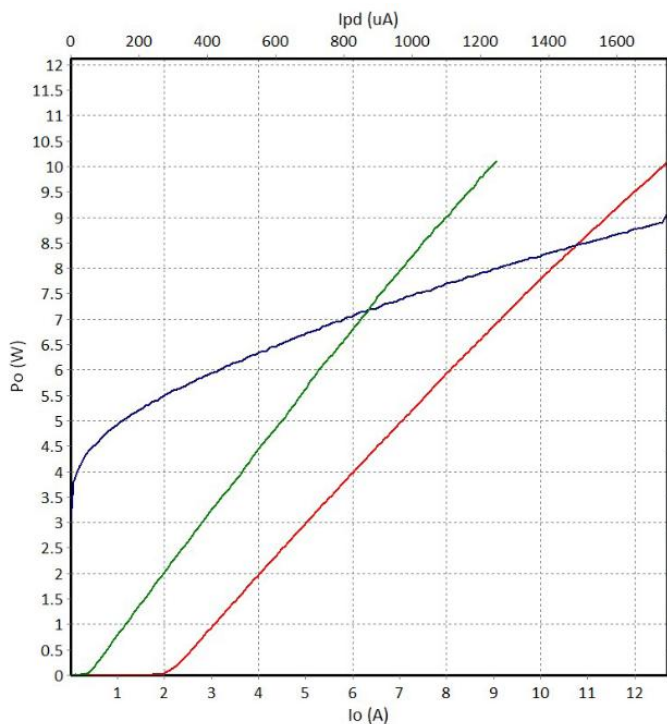
### Application

Medical use

Material processing

Laser pumping

## 808nm 6WM Characteristics (25°C)



## Typical Device Performance(25°C)

Parameter		Symbol	Typical Value	Unit
			R808±10-6WF-09HHL-T	
Optical	CW Output Power	$P_{op}$	6	W
	Center Wavelength	$\lambda_c$	808±10	nm
	Spectral Width	$\Delta\lambda$	<3	nm
	Temperature drift of wavelength	$\Delta\lambda / \Delta T$	0.3	nm/°C
Electrical	Threshold Current	$I_{th}$	1.34	A
	Operating Current	$I_{op}$	7.74	A
	Operating Voltage	$V_{op}$	1.96	V
	PD Current	$I_{PD}$	<2000	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	$d_{core}$	105	μm
	Fiber Cladding Diameter	$d_{clad}$	125	μm
	Fiber Buffer Diameter	$d_{buffer}$	250	μm
	Numerical Aperture	NA	0.22	-
	Connector	-	FC/P,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	80	70	250(10Sec.)

## Package Dimensions (mm)

Pin	Function
1	TEC(-)
2	Case
3	Laser(+)
4	Thermistor
5	Thermistor
6	Laser(-)
7	PD(P)
8	PD(N)
9	TEC(+)

