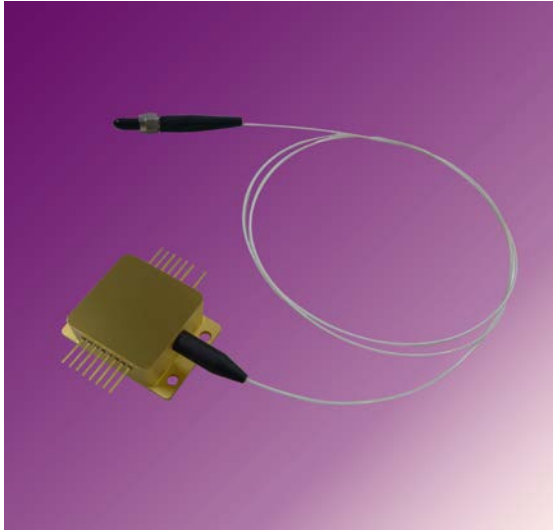




## 808nm 15-pin Laser Diode Modules (4-8W)

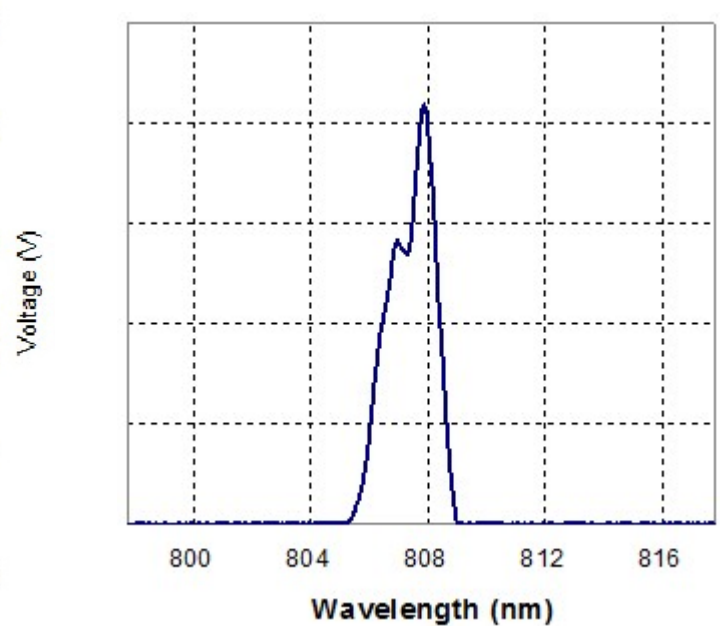
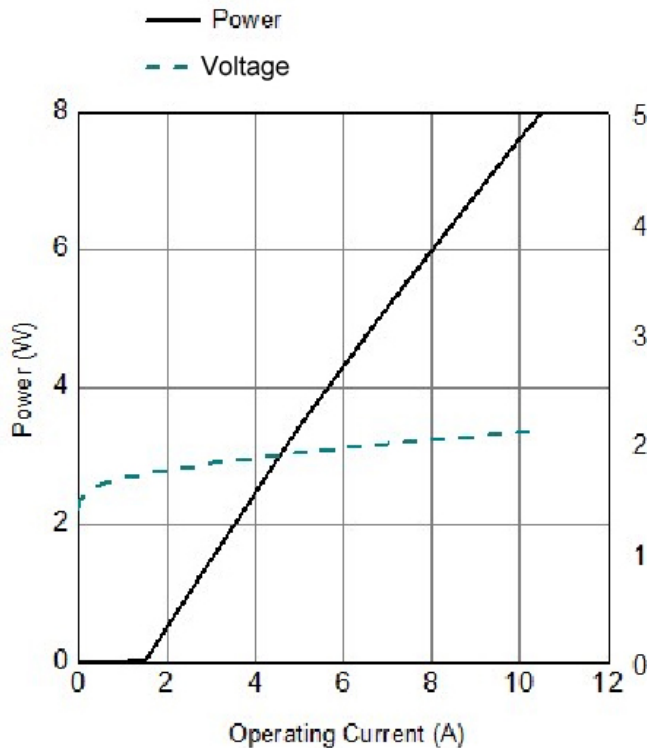
**G808-4WF-15HHL-PT**

**G808-8WF-15HHL-PT**



Features:
<b>Output Power: 4-8W</b>
<b>Wavelength: 808nm</b>
<b>Aiming Beam: 650nm</b>
<b>Fiber Core Diameter: 105/200/400<math>\mu</math>m</b>
<b>0.22NA</b>
Applications
<b>Medical Use</b>
<b>Laser Pumping</b>
<b>Material Processing</b>

**808nm Characteristics (25°C, 8W)**



## Typical Device Performance (25°C)

Parameter		Symbol	Typical Value		Unit
			G808-0040WF-15HHL-PT	G808-0080WF-15HHL-PT	
Optical	CW Output Power	$P_{op}$	4	8	W
	Center Wavelength	$\lambda_c$	808±3, 808±10		nm
	Spectral Width (90% of Power)	$\Delta\lambda$	<3		nm
	Wavelength Shift with Temperature	$\Delta\lambda/\Delta T$	0.3		nm/°C
Pilot beam	Output Power	$P_a$	>2		mW
	Wavelength	$\lambda_a$	650±10		nm
	Voltage	$V_a$	2.2, 5.0		V
	Current	$I_a$	<30		mA
Electrical	Threshold Current	$I_{th}$	0.6	1.5	A
	Operating Current	$I_{op}$	5.5	10	A
	Operating Voltage	$V_{op}$	2.1	2.2	V
	Slope Efficiency	$\eta_{es}$	0.8-0.9		W / A
	PD	$I_{mo}$	0.2-2.0		mA
	TEC Max Current	$I_t$	4	6	A
	TEC Max Voltage	$V_t$	9.8		V
Fiber	Thermistor	$R_t$	10±5%/3477		(K Ω)/β(25°C)
	Core Diameter	$d_{core}$	105,200	200,400	μm
	Numerical Aperture	NA	0.22		-
	Connector	-	ST, FC, SMA905		-

## Other Parameters

Parameter	Operating Temperature /°C	Storage Temperature /°C	Storage Relative Humidity /%	Lead Soldering Temperature, 10s max/°C	MTBF/h
Min	10	-20	-	-	10000
Max	30	80	90	250	-

## Package Dimensions (mm)

Pin	Function	Pin	Function
1	Case	9	None
2	Laser (+)	10	None
3	Thermistor	11	None
4	Thermistor	12	None
5	Laser (-)	13	Aiming Beam (+)
6	PD (P)	14	Aiming Beam (-)
7	PD (N)	15	TEC (+)
8	TEC (-)		

