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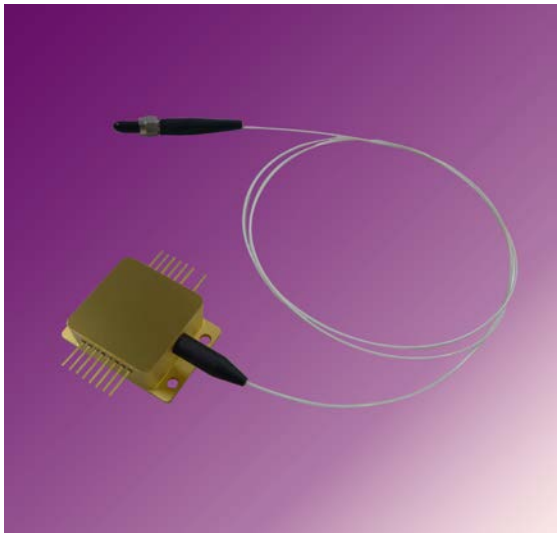
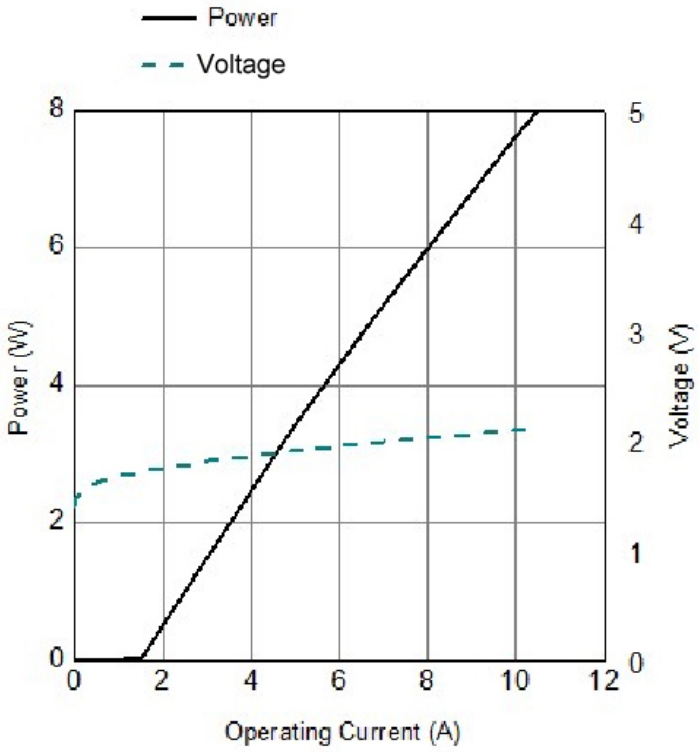
808nm 15-pin Laser Diode Modules (4-8W)

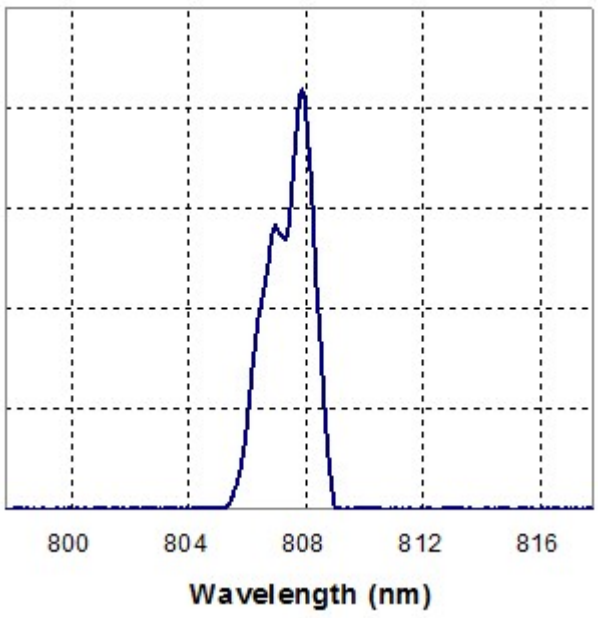
G808-4WF-15HHL-PT **G808-8WF-15HHL-PT**



Features:
Output Power: 4-8W
Wavelength: 808nm
Aiming Beam: 650nm
Fiber Core Diameter: 105/200/400μm
0.22NA
Applications
Medical Use
Laser Pumping
Material Processing

808nm Characteristics (25℃, 8W)





Typical Device Performance (25℃)

Parameter		Symbol	Typical Value		Unit
			G808-0040WF-15HHL-PT	G808-0080WF-15HHL-PT	
Optical	CW Output Power	P_{op}	4	8	W
	Center Wavelength	λ_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/℃
Pilot beam	Output Power	P_a	>2		mW
	Wavelength	l_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	η_{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
	Thermistor	R_t	10±5%/3477		(K Ω)/β(25℃)
Fiber	Core Diameter	d_{core}	105,200	200,400	μm
	Numerical Aperture	NA	0.22		-
	Connector	-	ST，FC，SMA905		-

Other Parameters

Parameter	Operating Temperature /℃	Storage Temperature /℃	Storage Relative Humidity /%	Lead Soldering Temperature, 10s max/℃	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（－）