



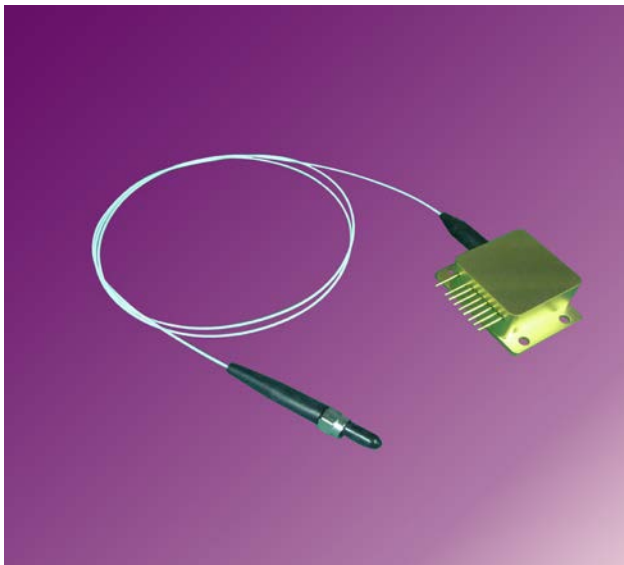
808nm 9-pin Laser Diode Modules (2-8W)

G808-2WF-09HHL-T

G808-4WF-09HHL-T

G808-5WF-09HHL-T

G808-8WF-09HHL-T



Features:

Output Power: 2~8W

Wavelength: 808nm

Fiber core diameter: 105/200 μ m

0.22NA

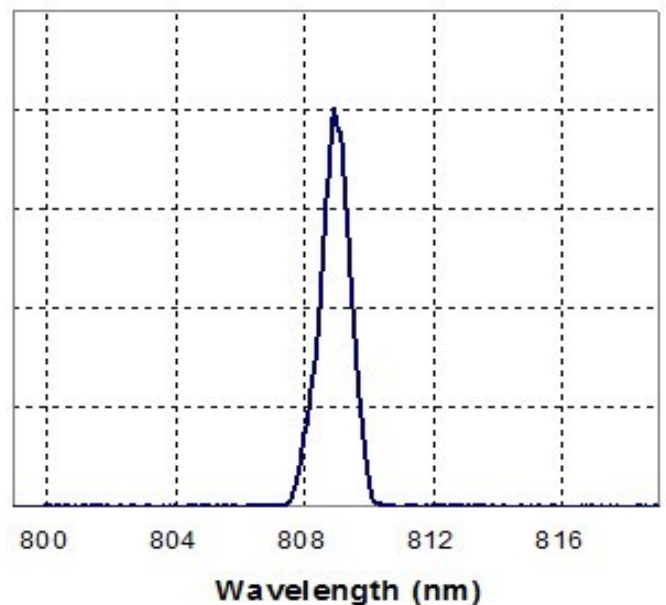
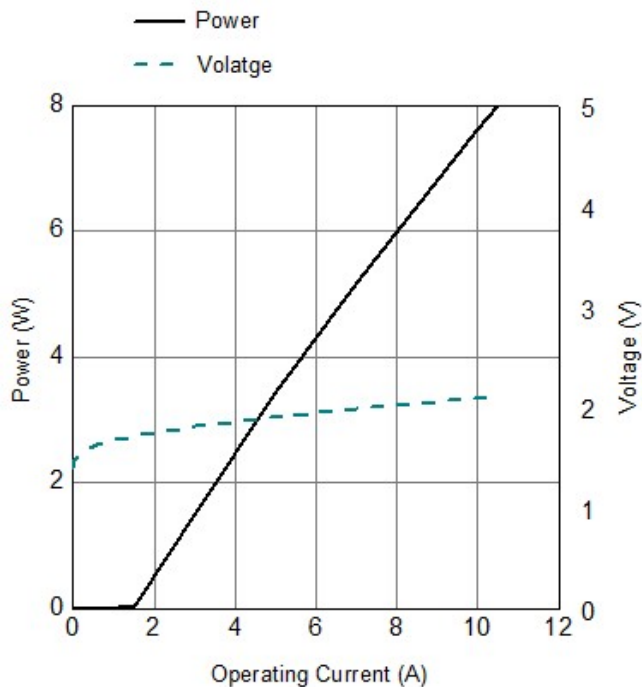
Applications

Medical Use

Laser Pumping

Material Processing

808nm Characteristics (25°C, 8W)



Typical Device Performance (25°C)

Parameter	Symbol	Typical Value				Unit	
		G808-2WF-09 HHL-T	G808-4WF-09 HHL-T	G808-5WF-09 HHL-T	G808-8WF-09 HHL-T		
Optical	CW Output Power	P_{op}	2	4	5	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/°C
Electrical	Threshold Current	I_{th}	0.4	0.6	0.6	1.5	A
	Operating Current	I_{op}	2.5	5.5	6.5	10	A
	Operating Voltage	V_{op}	1.9	2.1	2.1	2.2	V
	Slope Efficiency	η_{es}	0.8-1.0				W / A
	PD	I_{mo}	0.2-1.5				mA
	TEC Max Current	I_t	4	4	4	6	A
	TEC Max Voltage	V_t	9.8				V
Thermistor	R_t	10±5%/3477				(K Ω)/β(25°C)	
Fiber	Core Diameter	d_{core}	105,200				μm
	Cladding Diameter	d_{clad}	125,220				μm
	Buffer Diameter	d_{buffer}	250,400				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	TEC(-)	6	Laser(-)
2	Case	7	PD P
3	Laser(+)	8	PD N
4	Thermistor	9	TEC (+)
5	Thermistor		

