

808nm 2-8W Laser Diode Modules

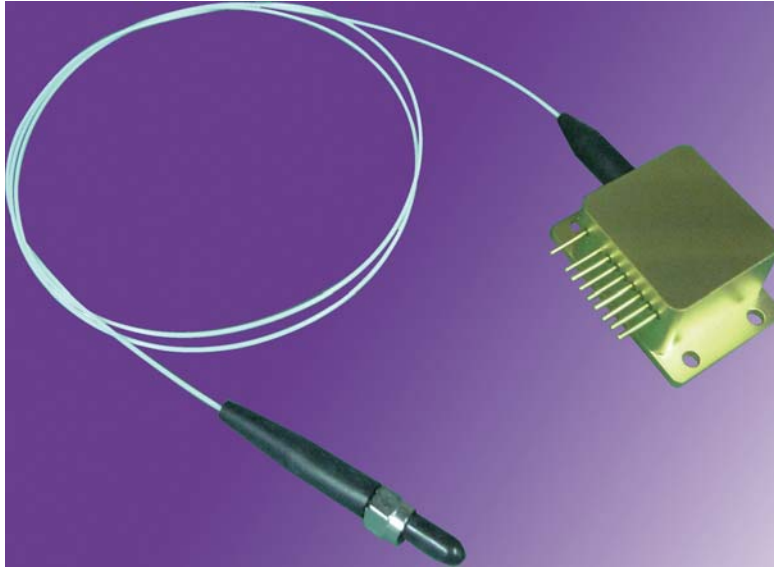
Functions: PD, TEC, Thermistor

G808-2WF-09HHL-T

G808-4WF-09HHL-T

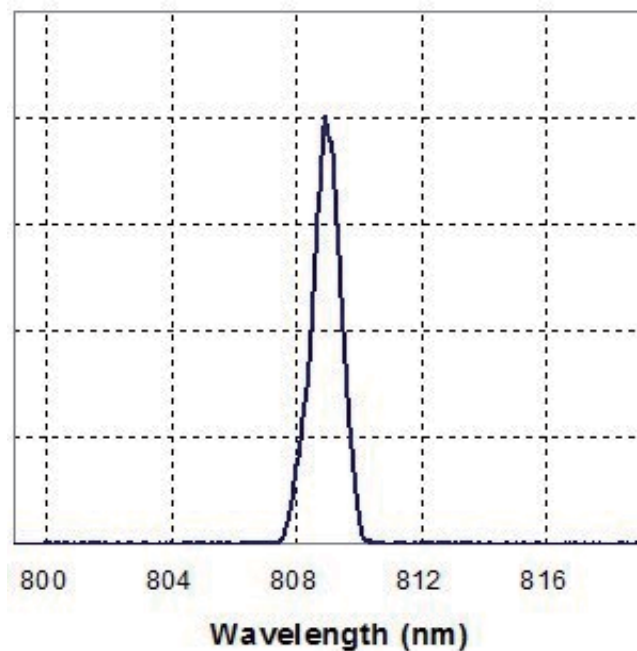
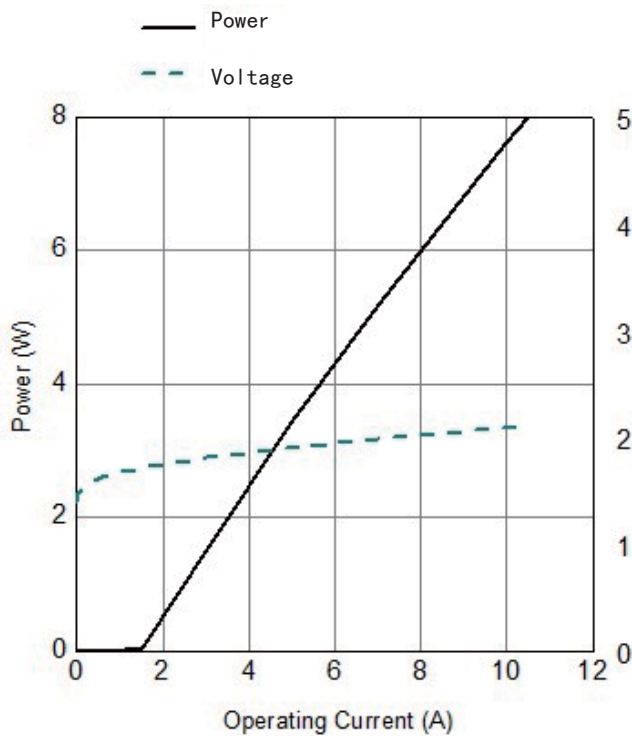
G808-6WF-09HHL-T

G808-8WF-09HHL-T



Features
Output power: 2~8W
Wavelength: 808nm
Fiber core diameter: 105/200/400 μm
0.22NA
Application
Laser pumping
Medical use
Material processing

808nm Characteristics (25°C)



Typical Device Performance (25°C)

Parameter	Symbol	Typical				Unit	
		G808-2WF-09 HHL -T	G808-4WF-09 HHL -T	G808-6WF-09 HHL -T	G808-8WF-09 HHL -T		
Optical	CW Output Power	P_{op}	2	4	6	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	6	6	A
	TEC Max Voltage	V_t	9.8				V
Thermistor	R_t	10±5%/3477				(K Ω)/β (25°C)	
Fiber	Fiber Core Diameter	d_{core}	105, 200, 400			200, 400	μm
	Fiber Cladding Diameter	d_{clad}	125, 220, 400			220, 400	μm
	Fiber Buffer Diameter	d_{buffer}	250, 400, 600			400, 600	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	10	

