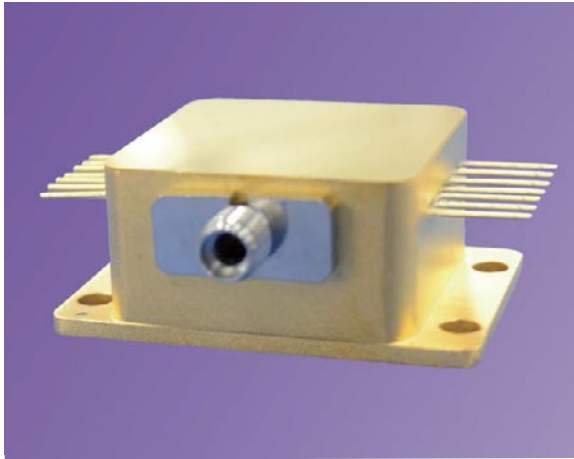


808nm 7W Detachable Laser Diode Module

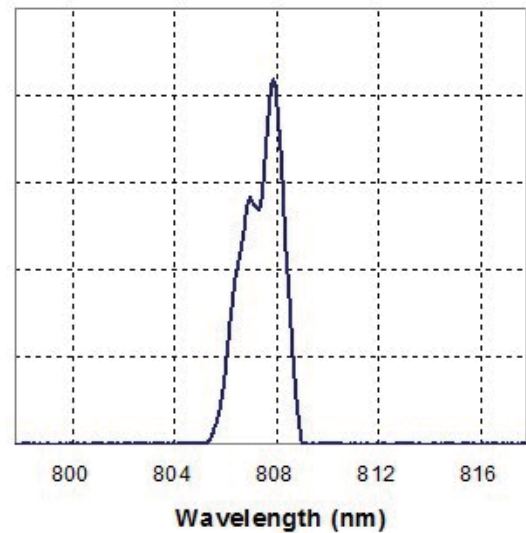
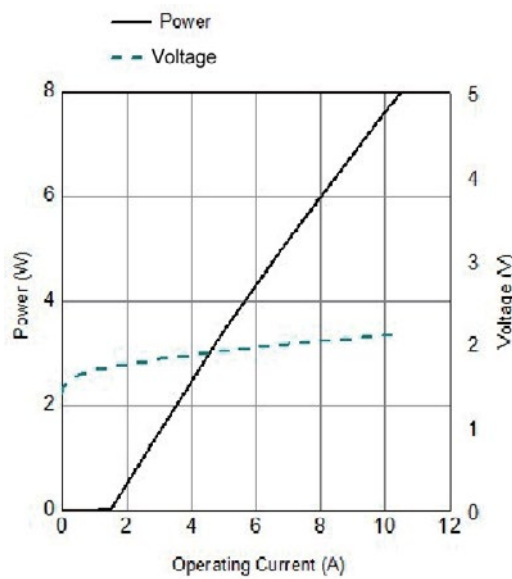
Functions: PD, TEC, Thermistor, Aiming Beam, Fiber Detector

G808-7WD-14HHL-PTFS



Features
Output power: 7W
Wavelength: 808nm, 650nm
Fiber core diameter: 200 μ m
0.22NA
Fiber detector
Application
Medical use
Material processing

808nm Characteristics (25°C)



Typical Device Performance (25°C)

Parameter	Symbol	Typical	Unit
		G808-7WD-14HHL-PTFS	
Optical	CW Output Power	p_{op}	7 W
	Center Wavelength	λ_c	$808 \pm 3, 808 \pm 10$ 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	λ_a	650 ± 10 nm
	Voltage	V_a	2.2, 5.0 V
	Current	I_a	<30 mA
Electrical	Threshold Current	I_{th}	1.6 A
	Operating Current	I_{op}	9 A
	Operating Voltage	V_{op}	1.9 V
	Slope Efficiency	η_{es}	0.8-0.9 W/A
	PD	I_{mo}	0.2-2.0 mA
	TEC Max Current	I_t	6 A
	TEC Max Voltage	V_t	9.8 V
Fiber	Thermistor	R_t	$10 \pm 5\% / 3477$ (K Ω) / β (25°C)
	Fiber Core Diameter	d_{core}	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	8	TEC(-)
2	Laser (+)	9	Fiber Detection PDP
3	Thermistor	10	Fiber Detection LED(-)
4	Thermistor	11	Fiber Detection LED(+) Fiber Detection PDN
5	Laser (-)	12	Aiming Beam LD(+)
6	PD (P)	13	Aiming Beam LD(-)
7	PD (N)	14	TEC(+)

