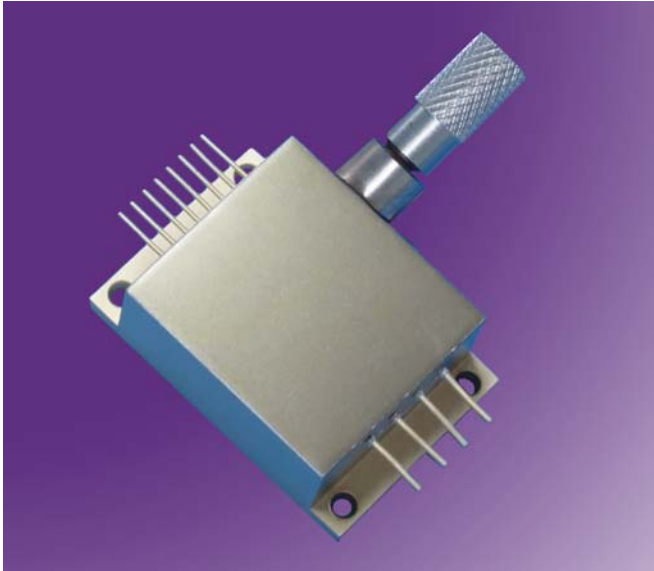


808nm 15W, 20W Detachable Laser Diode Module

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

M808±5-15-D200/22-G4T-TAP

M808±5-20-D200/22-G4T-TAP



Features

Output power: 15W, 20W

Wavelength: 808±5nm

200µm core multimode optical fiber (400µm optional)

0.22NA

Contains TEC

PD, Thermistor, Aiming Beam, Fiber Detector optional

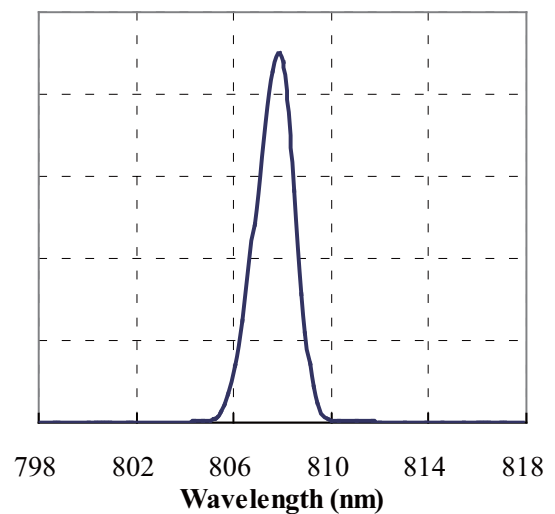
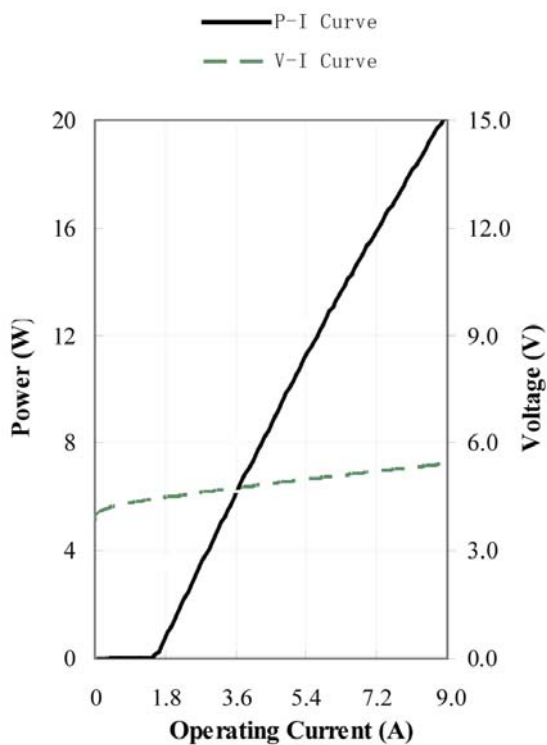
Applications

Laser pumping

Medical use

Material processing

808nm Characteristics (25°C)



Typical Device Performance (25°C)

Parameter	Symbol	Typical		Unit	
		M808±5-15-D200/22-G4T-TAP	M808±5-20-D200/22-G4T-TAP		
Optical	CW Output Power	P_{op}	15	20	W
	Center Wavelength	λ_c	808±5		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}	0.8	1.6	A
	Operating Current	I_{op}	4.7	9	A
	Operating Voltage	V_{op}	7.2	5.4	V
	Slope Efficiency	η_{es}	3.8	2.7	W/A
	Power Conversion Efficiency	η_{ep}	45	42	%
Fiber	Fiber Core Diameter	d_{core}	200		μm
	Fiber Cladding Diameter	d_{clad}	220		μm
	Fiber Buffer Diameter	d_{buffer}	500		μm
	Numerical Aperture	NA	0.22		-
	Connector	-	SMA905		-

Other Parameters

Parameter	Operating Temperature /°C	Operating Relative Humidity /%	Storage Temperature /°C	Storage Relative Humidity /%	Lead Soldering Temperature, 10s max/°C
Min	10	-	-20	-	-
Max	40	75	80	90	250

Package Dimensions (mm)

Pin	Function	Pin	Function
1	TEC (-)	7	Aiming Beam LD(+)
2	Laser (-)	8	Aiming Beam LD(-)
3	Laser (+)	9	PD (N)
4	TEC (+)	10	PD (P)
5	Fiber Detection PDP	11	Thermistor
6	Fiber Detection PDN	12	Thermistor

