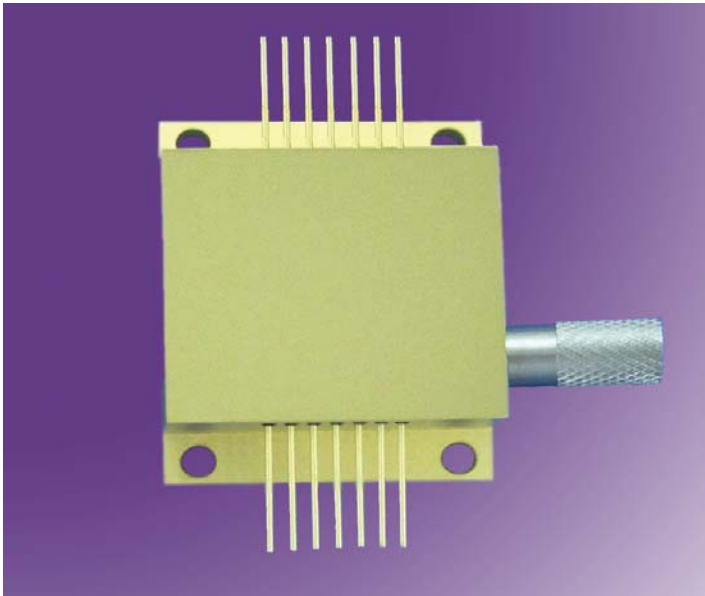


808nm 30, 40W Detachable Laser Diode Module

Functions: PD, Thermistor, Aiming Beam, Fiber Detector

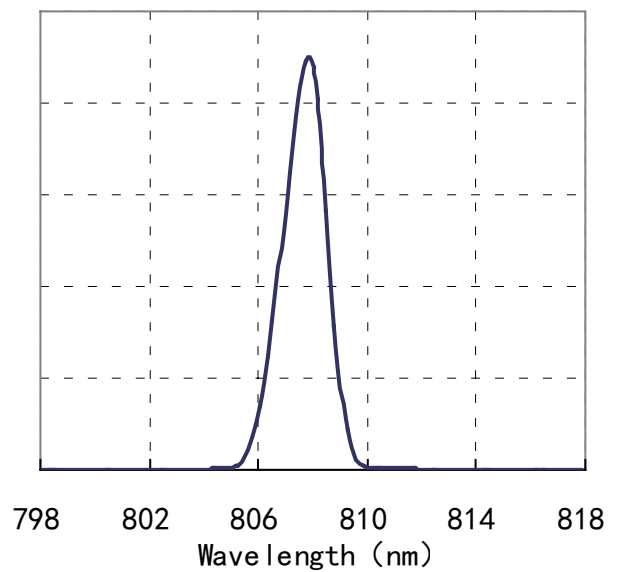
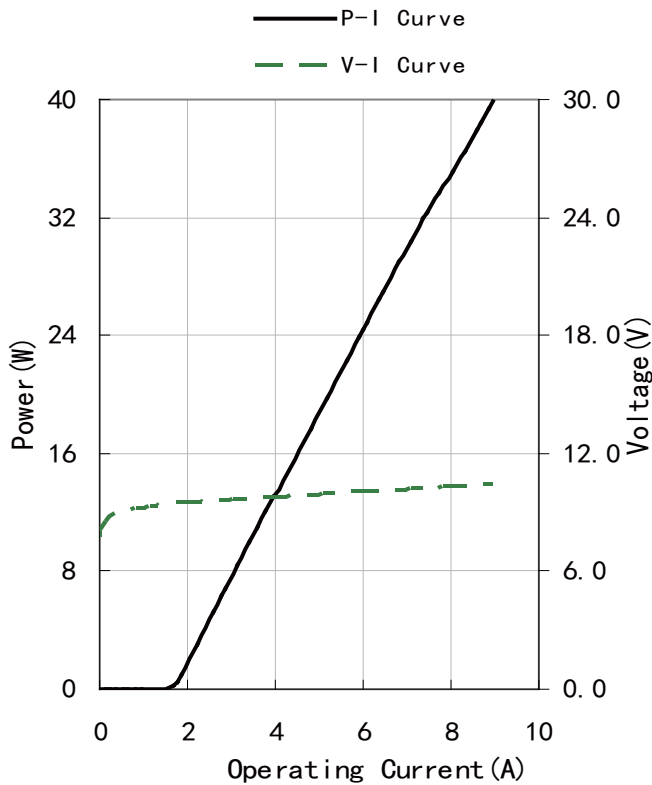
M808±3-30-D200/22-T6

M808±3-40-D200/22-T6



Features
Output power: 30W, 40W
Wavelength: 808nm
Fiber core diameter: 200 μm
0.22NA
PD, Thermistor, Aiming Beam, Fiber Detector optional
Application
Medical use
Material processing

808nm Characteristics (25°C)



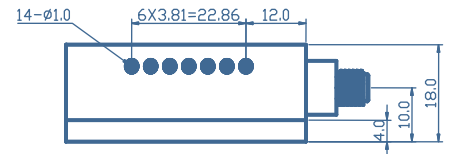
Typical Device Performance (25°C)

Parameter	Symbol	Typical		Unit	
		M808±3-30-D200/22-T6	M808±3-40-D200/22-T6		
Optical	CW Output Power	P_{op}	30	40	W
	Center Wavelength	λ_c	808±3 (±10 optional)		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}	1.7		A
	Operating Current	I_{op}	8	9	A
	Operating Voltage	V_{op}	9	10.8	V
	Slope Efficiency	η_{es}	4.7	5.4	W/A
	Power Conversion Efficiency	η_{ep}	42	44	%
Fiber	Fiber Core Diameter	d_{core}	200		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	Laser (+)	8	Aiming Beam LD(+)
2	PD (N)	9	Aiming Beam LD(-)
3	PD (P)	10	-
4	Thermistor	11	-
5	Thermistor	12	-
6	-	13	Fiber Detection PDN
7	Laser (-)	14	Fiber Detection PDP

