

# 830nm 1 W Laser Diode Module



## Applications

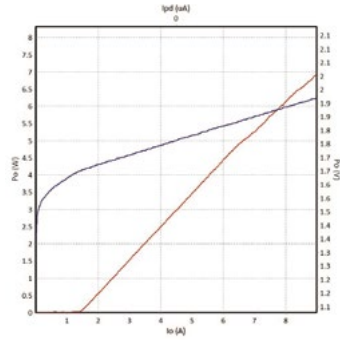
Pump source  
Material processing  
Medical use

## Technical Specifications (25°C)

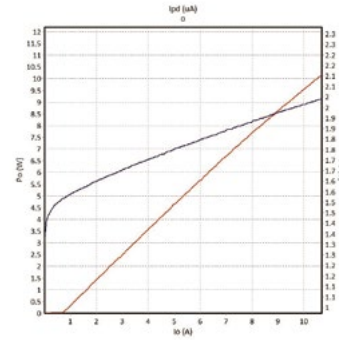
Package Type		02HBCK		
Center Wavelength (nm)		808	830	9XX
Optical	CW Output Power / Pop (W)	8	1	10
	Wavelength Tolerance (nm)	±10		
	Spectral Width / Δλ (nm)	<6		
	Temperature Drift of Wavelength / Δλ/ΔT (nm/°C)	0.3		
	Feedback Protection (dB) (1030-1100nm)	> 40 (Optional)		
Electrical	Electrical Threshold Current / Ith (A)	1.5	0.2	0.7
	Operating Current / Iop (A)	11	1.4	12
	Operating Voltage / Vop (V)	1.9	2.1	2
	Slope Efficiency / ηes (W/A)	0.8	0.8	0.9
Fiber	Fiber Core Diameter / dcore (μm)	105	60	105
	Fiber Cladding Diameter / Dclad (μm)	125	125	125
	Fiber Coating Diameter / Dbuffer (μm)	250	250	250
	Fiber Length / L (cm)	100±10 (Customizable)		
	Numerical Aperture / NA	0.22		
	Connector	FC/PC, ST, SMA905		

## Other Parameters

Parameter	Operating Temperature /°C	Operating Relative Humidity /%	Storage Temperature /°C	Storage Relative Humidity /%	Lead Soldering Temperature (max/°C)
Min	10	-	-20	-	-
Max	30	75	70	90	250(10Sec.)



808nm P-I-V Graph

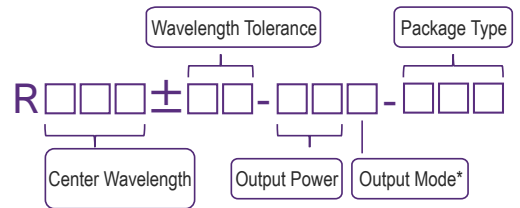


940nm P-I-V Graph

Order Information

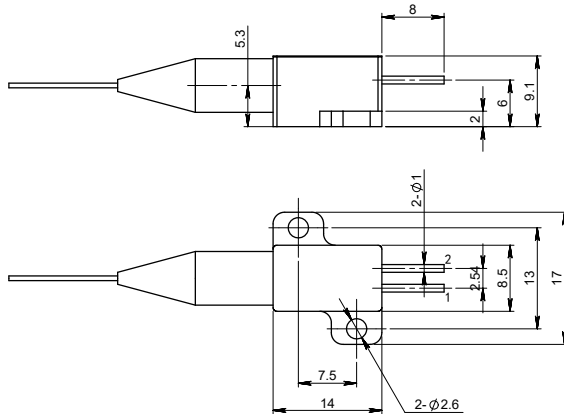
Package	Wavelength (nm)	Output Power (W)	Part Number
02HBCK	808	8	R808±10-8WF-02HBCK
	830	1	R830±10-1WF-02HBCK
	915	10	R915±10-10WF-02HBCK
	940	10	R940±10-10WF-02HBCK
	976	10	R976±10-10WF-02HBCK

Part Numbering Schema



\*Output Mode: F - Fiber Pigtailed

Mechanical Drawings (in mm)



Pin	Function
1	Laser (+)
2	Laser (-)

