

# 02HBCK

## Diode Laser Components



02HBCK diode laser components are RealLight's AW series laser modules, providing single-wavelength output in fiber coupled configurations, featuring compact size, excellent beam quality, high output power and more.

### Key Features

- ◆ Compact size
- ◆ High reliability
- ◆ Excellent beam quality
- ◆ Various wavelengths

### Applications

- Pumping source
- Material processing
- Laser Therapy
- NightVision lighting

### Technical Specifications (25°C)

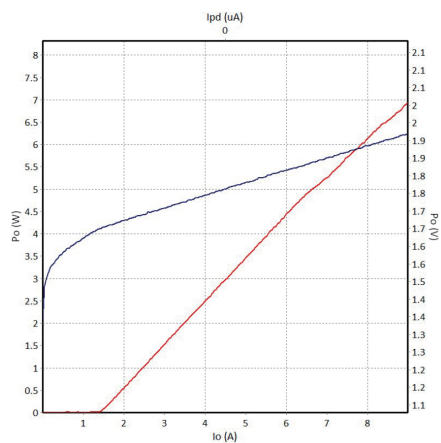
Package Type		02HBCK Fiber Pigtailed		
Center Wavelength (nm)		808	9XX	1064
Optical	CW Output Power / P <sub>op</sub> (W)	8	10	10
	Wavelength Tolerance (nm)	±3,±10		
	Spectral Width / Δλ (nm)	<4		
	Temperature Drift of Wavelength / Δλ/ΔT (nm/°C)	0.3		
	Optional Feedback Protection Function	>40dB@1030-1070nm		
	Fiber Core/Cladding Diameter D <sub>core</sub> (μm)	105/125,200/220		
	Fiber Length / L (cm)	100±10 (customizable)		
	Numerical Aperture / NA	0.22		
	Connector	FC/PC, SMA905, bare ferrule		
Electrical	Threshold Current / I <sub>th</sub> (A)	1.5	1.2	1.3
	Operating Current / I <sub>op</sub> (A)	11	13	13.5
	Operating Voltage / V <sub>op</sub> (V)	2.2	1.9	1.9
	Slope Efficiency / η <sub>es</sub> (W/A)	0.8	0.9	0.8

### 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.)

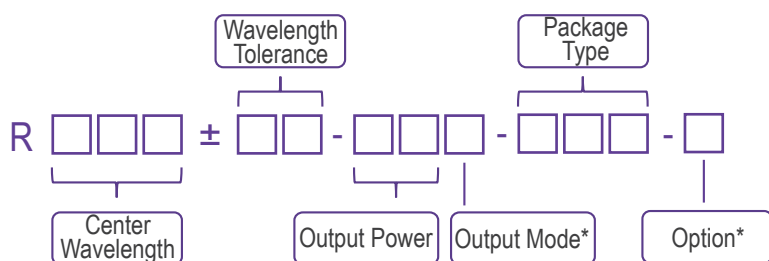
## Order Information

Package	Wavelength (nm)	Output Power (W)	Part Number
02HBCK Fiber Pigtailed	808	8	R808±3-8WF-02HBCK
	9XX	10	R9XX±10-10WF-02HBCK
	1064	10	R1064±10-10WF-02HBCK

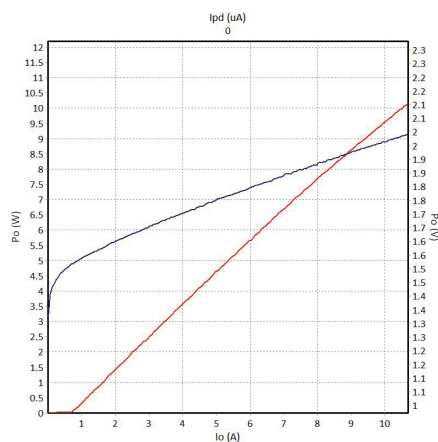


808nm P-I-V Graph

## Part Numbering Schema

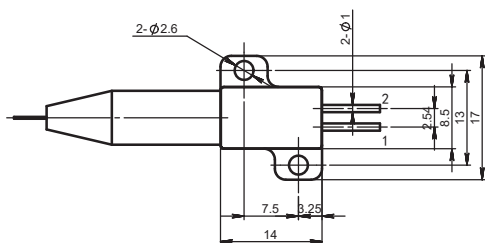
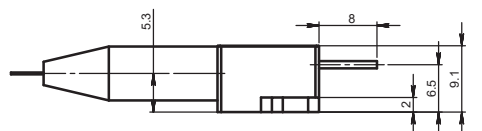


\*Output Mode: F - Fiber Pigtailed



940nm P-I-V Graph

## Mechanical Drawings (in mm)



Fiber Pigtailed

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

