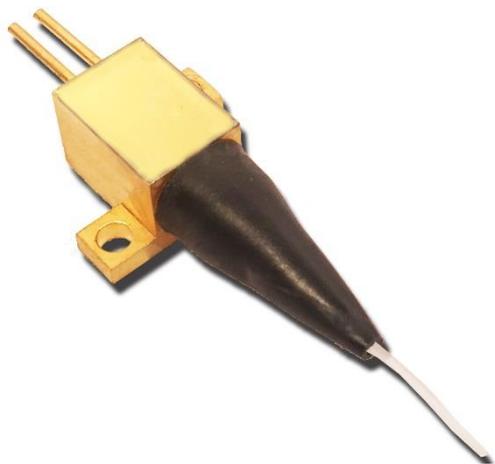


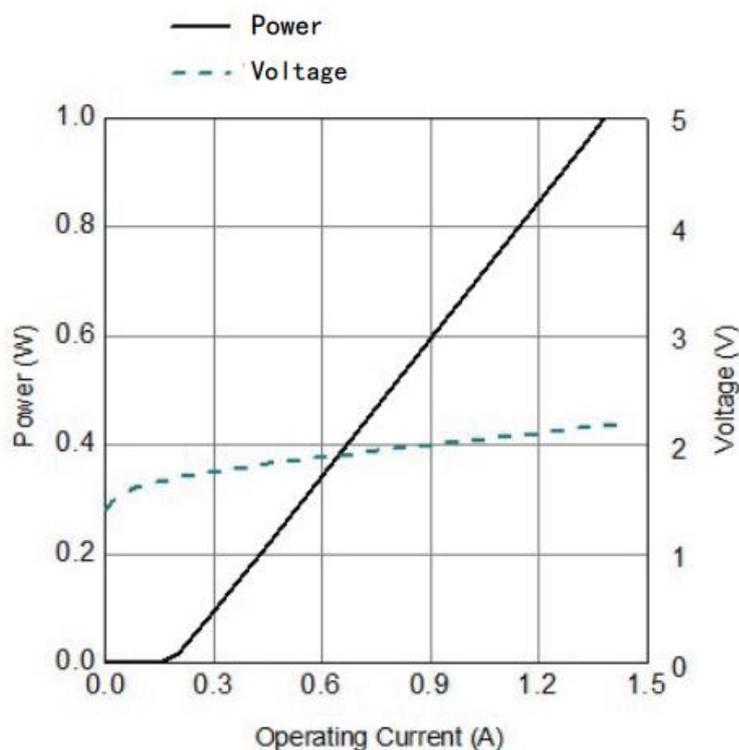
# 830nm 1W Laser Diode Module

R830±10-1WF-02HBCK



Feature	
Output power:	1W
wavelength:	830±10nm
Fiber core:	60μm
Numerical aperture:	0.22NA
Application	
Laser pumping	
Material processing	

## 830nm characteristics (25°C)



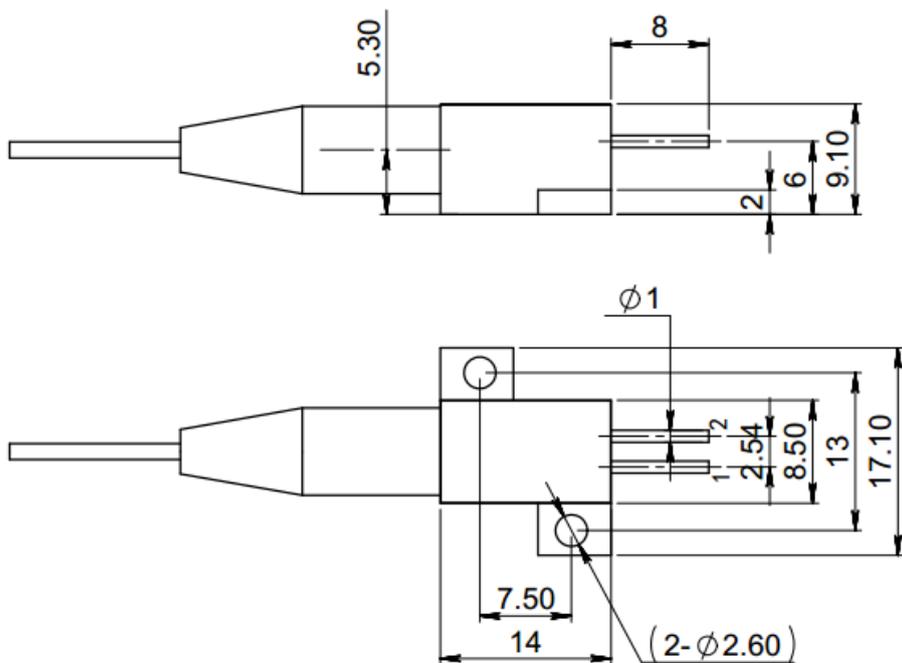
## Parameters

Parameter	Operating Temperature /°C	Operating Relative Humidity /%	Storage Temperature /°C	Storage Relative Humidity /%	Lead Soldering Temperature(max/°C)
Min	10	-	-20	-	-
Max	30	75	80	70	250(10Sec.)

## Typical Device Performance(25°C)

Parameter	Symbol	Typical value	Unit	
		R830±10-1WF-02HBCK		
Optical	CW output power	$P_{op}$	1	W
	Center wavelength	$\lambda_c$	830±10	nm
	Spectral width	$\Delta\lambda$	≤6	nm
	Temperature drift of wavelength	$\Delta\lambda/\Delta T$	0.3	nm/°C
Electrical	Threshold current	$I_{th}$	0.2	A
	Operating current	$I_{op}$	1.4	A
	Operating voltage	$V_{op}$	2.1	V
	Slope Efficiency	$\eta_{es}$	0.8	W/A
Fiber	Fiber core	$d_{core}$	60	μm
	Numerical aperture	NA	0.22	-
	Fiber cladding diameter	$d_{clad}$	125	μm
	Fiber buffer diameter	$d_{buffer}$	250	μm
	Connector	-	ST	-

## Package Dimensions (mm)



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