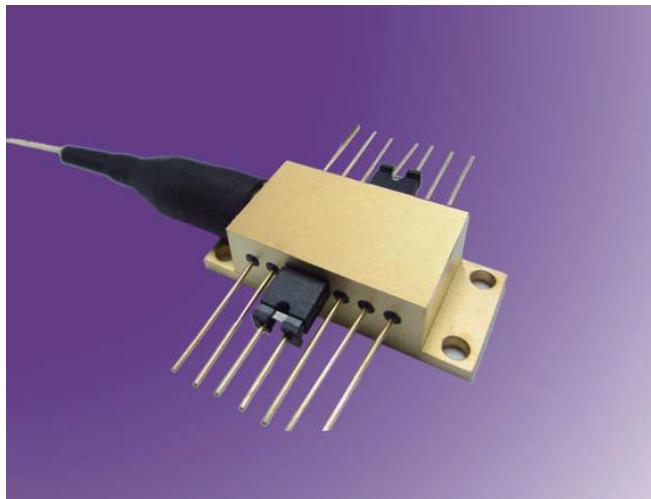




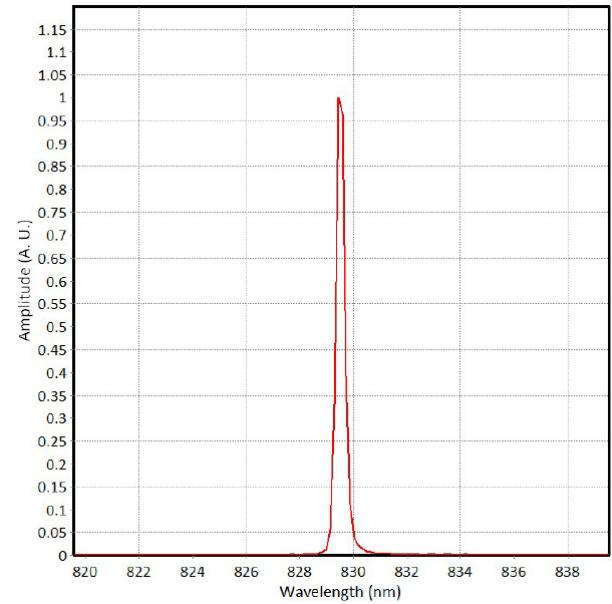
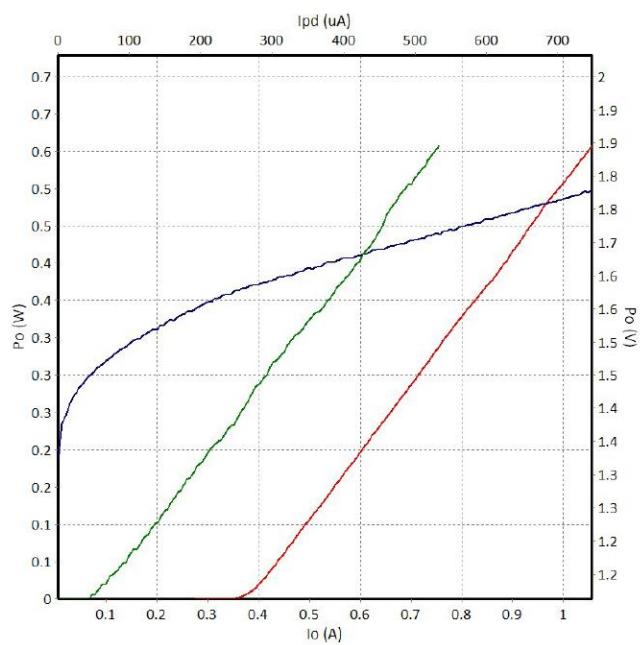
830nm 600mW Wavelength-stabilized Laser Diode Module

R830±0.5-600mWF-14SBTF-TG



Feature
Output power: 600mW
Wavelength: 830±0.5nm
Fiber core: 105 μm, 0.22NA
Wavelength stability
Current range: 0.35~1.1A
Temperature range: 15~30°C
Application
Spectrum
Biology analysis

830nm 600mW Characteristics (25°C)



Typical Device Performance(25°C)

Parameter		Symbol	Typical Value		Unit
			R830±0.5-600mWF-14SBTF-TG		
Optical	CW Output Power	P _{op}	600		mW
	Center Wavelength	λ _c	830±0.5		nm
	Spectral Width	Δ λ	≤0.1		nm
	Temperature drift of wavelength	Δλ /ΔT	0.01		nm/°C
	Current drift of wavelength	Δλ /ΔI _{op}	0.05		nm/A
Electrical	Threshold Current	I _{th}	0.38		A
	Operating Current	I _{op}	1.10		A
	Operating Voltage	V _{op}	1.84		V
	Slope Efficiency	η _{es}	0.83		W/A
	PD Parameter	I _{PD}	<2000		μA
	Thermistor	R _t	10±5%/3450		kΩ/β
	TEC max Current	I _{max}	2.2		A
	TEC max Voltage	V _{max}	8.7		V
Fiber	Fiber Core Diameter	d _{core}	105		μm
	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.)

Package Dimensions (mm)

Pin	Function	Pin	Function
1	TEC (+)	8	--
2	Thermistor	9	--
3	PD (P)	10	Laser (+)
4	PD (N)	11	Laser (-)
5	Thermistor	12	--
6	--	13	Shell
7	--	14	TEC (-)

