



**Electro Optical Components, Inc.**

5460 Skylane Boulevard, Santa Rosa, CA 95403

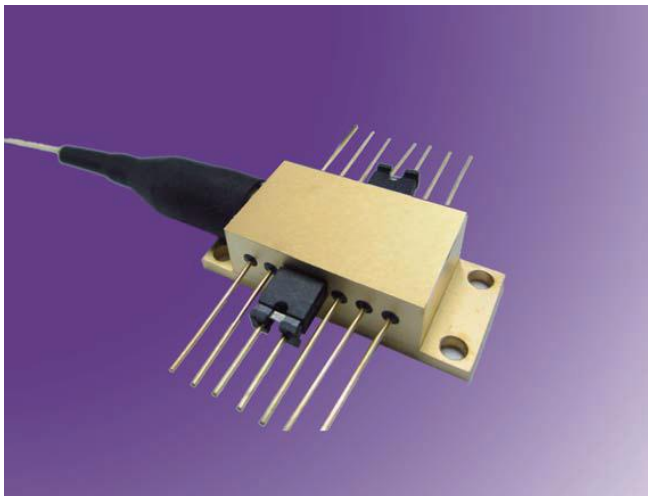
Toll Free: 855-EOC-6300

[www.eoc-inc.com](http://www.eoc-inc.com) | [info@eoc-inc.com](mailto:info@eoc-inc.com)



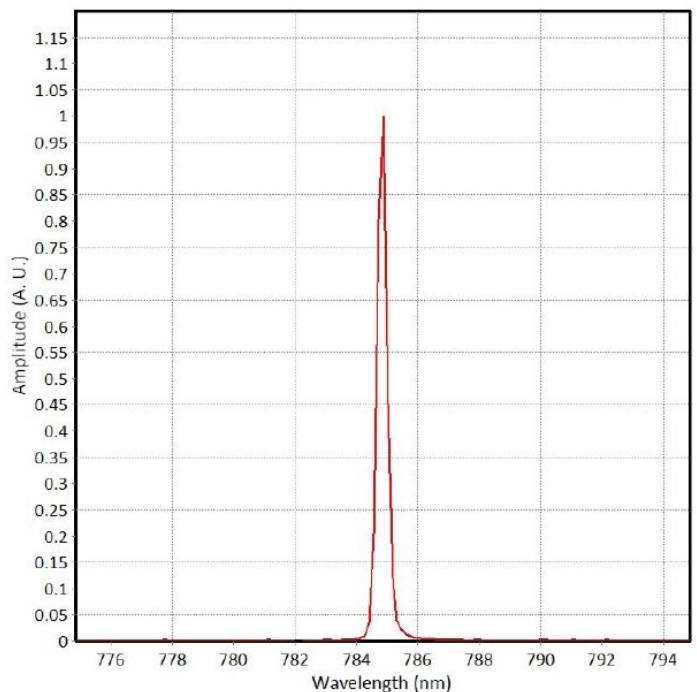
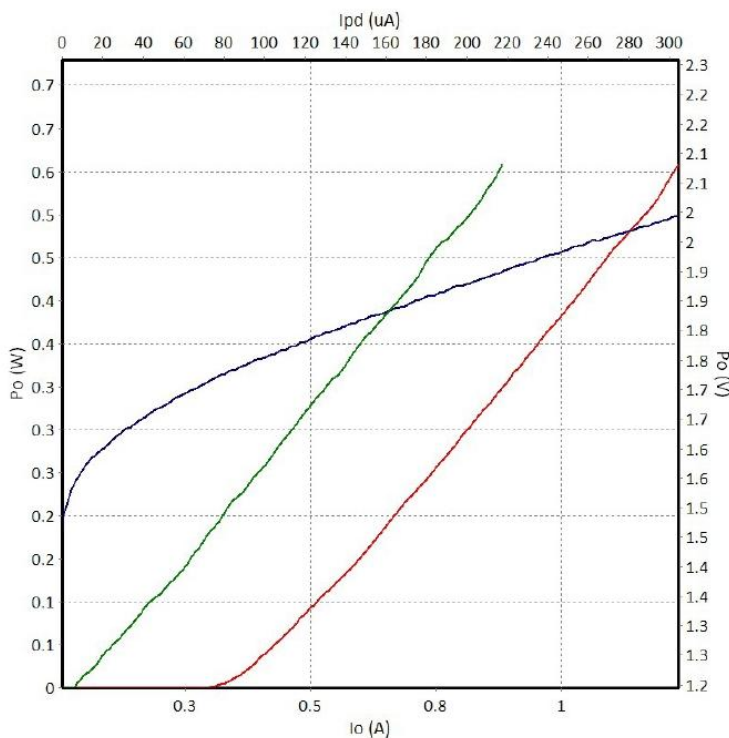
## 785nm 600mW Wavelength-stabilized Laser Diode Module

R785±0.5–600mWF–14SBTF–TG



Feature
Output power: 600mW
Wavelength: 785±0.5nm
Fiber core: 105 μm, 0.22NA
Wavelength stability
Current range: 0.4~1.3A
Temperature range: 15~30°C
Application
Spectrum
Biology analysis

### 785nm 600mW Characteristics (25°C)



## Typical Device Performance(25°C)

Parameter		Symbol	Typical Value	Unit
			R785±0.5-600mWF-14SBTF-TG	
Optical	CW Output Power	Pop	600	mW
	Center Wavelength	$\lambda_c$	785±0.5	nm
	Spectral Width	$\Delta\lambda$	≤0.1	nm
	Temperature drift of wavelength	$\Delta\lambda / \Delta T$	0.01	nm/°C
	Current drift of wavelength	$\Delta\lambda / \Delta I_{op}$	0.05	nm/A
Electrical	Threshold Current	$I_{th}$	0.36	A
	Operating Current	$I_{op}$	1.2	A
	Operating Voltage	$V_{op}$	2.3	V
	Slope Efficiency	$\eta_{es}$	0.7	W/A
	PD Parameter	$I_{mo}$	<2000	μA
	Thermistor	$R_t$	10±5%/3450	kΩ/β(25°C)
	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	-	SMA905,FC/PC	-

## 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	Case
7	--	14	TEC(-)

