



**Electro Optical Components, Inc.**

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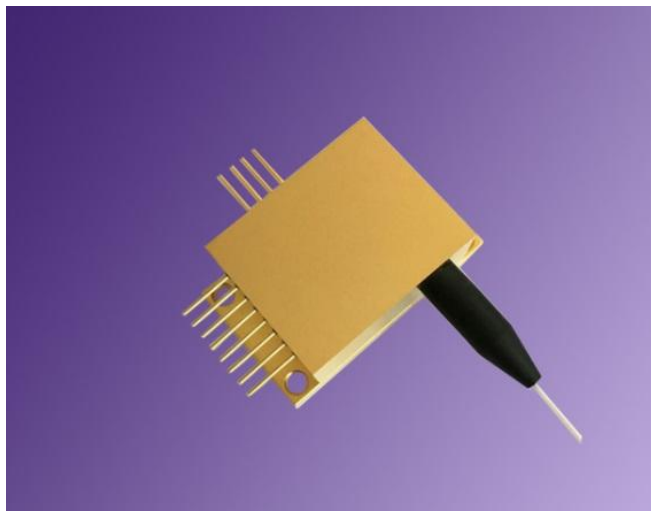
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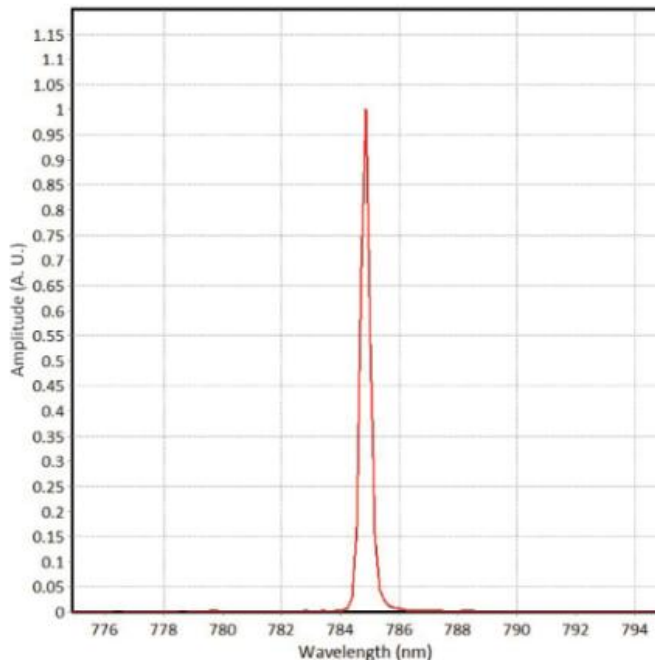
## 785nm&1064nm 600mW Dual-wavelength Laser Diode Module

R785/1064±0.5-600/600mWF-R2G-TG

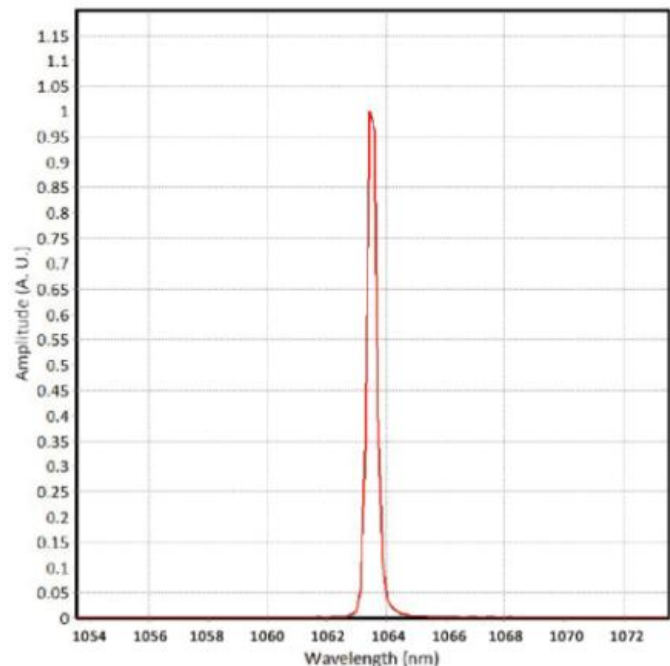


Feature
Wavelength: 785±0.5nm 1064±0.5nm
Output power: 600mW@785±0.5nm 600mW@1064±0.5nm
Fiber core: 105 μm, 0.22NA
Wavelength stability
Current range: 0.4~1.3A Temperature range: 15~30°C
Application
Spectrum
Science

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



785nm



1064nm

## Typical Device Performance(25°C)

Parameter		Symbol	Typical Value		Unit
			R785/1064±0.5-600/600mWF-R2G-TG		
Optical	CW Output Power	$P_{op}$	600@785nm	600@1064	mW
	Center Wavelength	$\lambda_c$	785±0.5	1064±0.5	nm
	Spectral Width	$\Delta\lambda$	≤0.1		nm
	Temperature drift of wavelength	$\Delta\lambda / \Delta T$	0.01		nm/°C
Electrical	Threshold Current	$I_{th}$	0.36	0.17	A
	Operating Current	$I_{op}$	1.18	1.31	A
	Operating Voltage	$V_{op}$	1.91	1.74	V
	Slope Efficiency	$\eta_{es}$	0.73	0.50	W/A
	PD Parameter	$I_{mo}$	<2000		μA
	Thermistor	$R_t$	10±5%/3450		kΩ/β(25°C)
	TEC max Current	$I_{max}$	6.0		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(+)	7	1064nm Laser(+)
2	Thermistor	8	TEC(-)
3	Thermistor	9	PD(N)
4	785nm Laser(-)	10	PD(P)
5	785nm Laser(+)	11	
6	1064nm Laser(-)	12	

