Electro Optical Components, Inc.
5460 Skylane Boulevard, Santa Rosa, CA 95403
Toll Free: 855-EOC-6300
www.eoc-inc.com | info@eoc-inc.com

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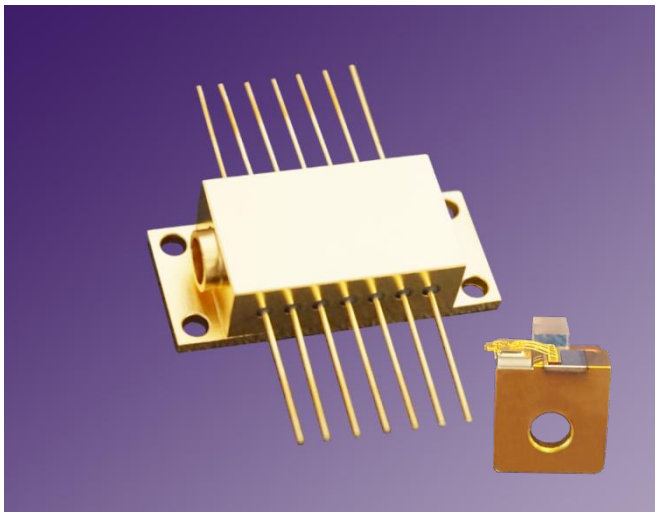
RealLight®

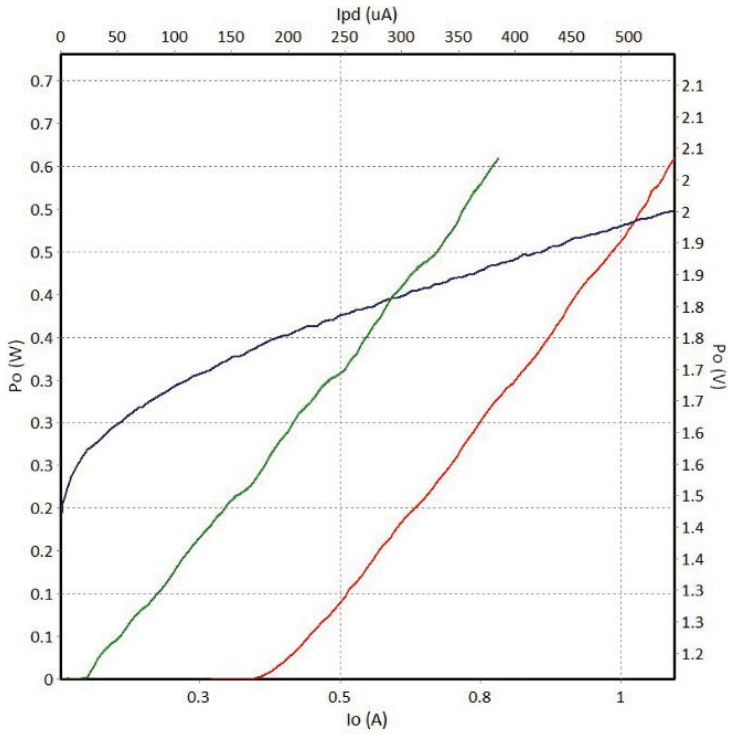
785nm 600mW Wavelength-stabilized Laser Diode Module

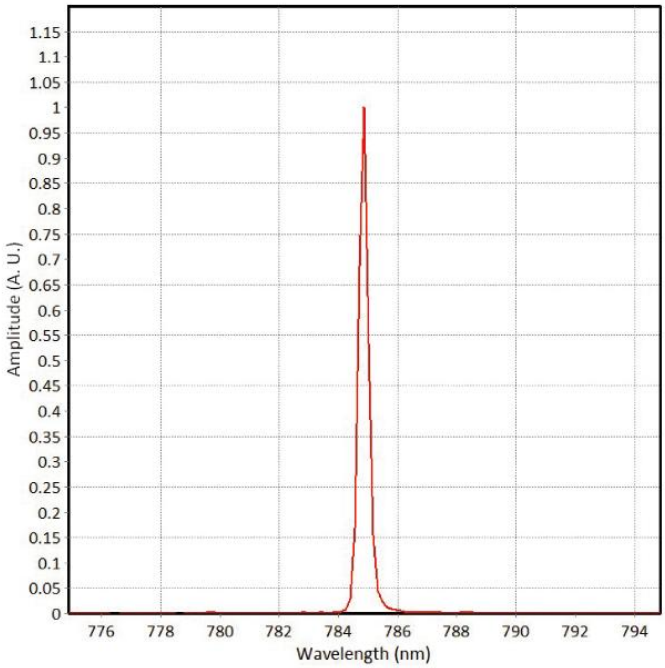
R785±0.5–600mWW–14SBTF–TG



Feature
Output power: 600mW
Wavelength: 785±0.5nm
Wavelength stability
Current range：0.4~1.3A Temperature range：15~30˚C
Application
Spectrum
Biology analysis

785nm 600mW Characteristics (25˚C)



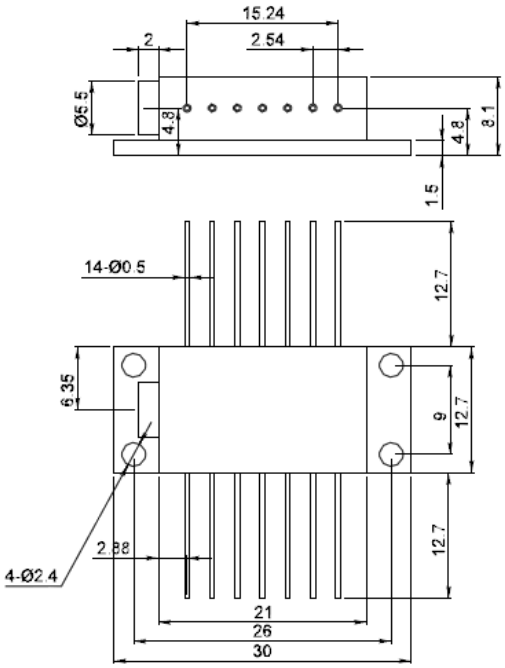


Typical Device Performance(25℃)

Parameter		Symbol	Typical Value		Unit
			R785±0.5–600mWW –14SBTF–TG	R785±0.5–600mWW –CM–TG	
Optical	CW Output Power	P_{op}	600		mW
	Center Wavelength	λ_c	785±0.5		nm
	Spectral Width	$\Delta\lambda$	≤0.1		nm
	Temperature drift of wavelength	$\Delta\lambda/\Delta T$	0.01		nm/℃
Electrical	Threshold Current	I_{th}	0.36		A
	Operating Current	I_{op}	1.09		A
	Operating Voltage	V_{op}	2.0		V
	Slope Efficiency	η_{es}	0.8		W/A
	PD Parameter	I_{mo}	＜2000	-	μA
	Thermistor	R_t	10±5%/3450	-	kΩ/β(25℃)
	TEC max Current	I_{max}	2.2	-	A
	TEC max Voltage	V_{max}	8.7	-	V

Other Parameters

Parameter	Operating Temperature /℃	Operating Relative Humidity /%	Storage Temperature /℃	Storage Relative Humidity /%	Lead Soldering Temperature (max/℃)
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(-)