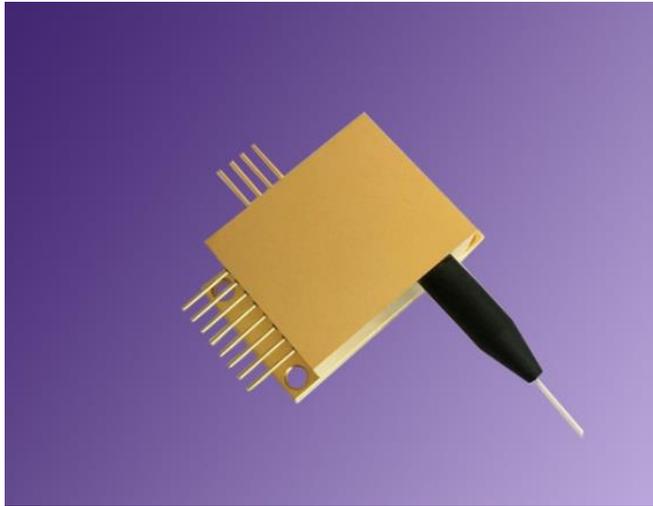


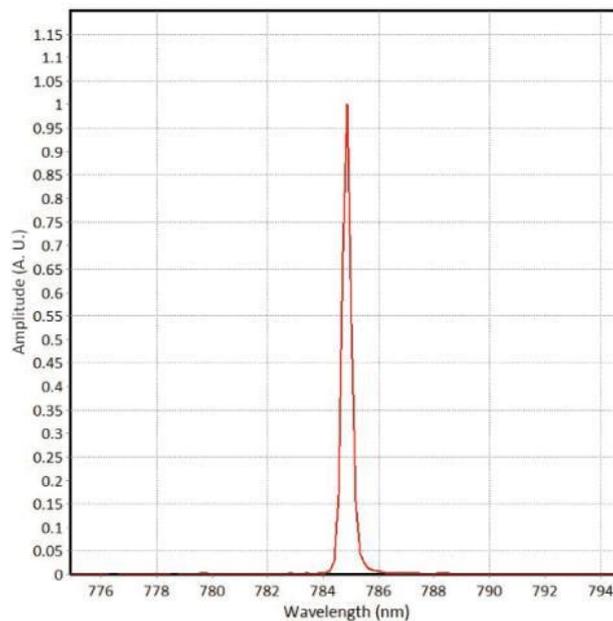
784.5nm&785.5nm 600&600mW Dual-wavelength narrow linewidth laser module

R784.5&785.5±0.5-600&600mWF-R2G-TG



Feature
Wavelength: 784.5±0.5nm 785.5±0.5nm
Output power: 600mW @784.5±0.5nm 600mW @785.5±0.5nm
Fiber core: 105 μm, 0.22NA
Current range: 0.4~1.3A Temperature range: 20~30°C
Application
Spectrum
Science

784.5&785.5nm 600&600mW Characteristics (25°C)



Typical Device Performance(25°C)

Parameter		Symbol	Typical Value		Unit
			R784.5/785.5±0.5-600/600mWF-R2G-TG		
Optical	CW Output Power	Pop	600@784.5nm	600@785.5	mW
	Center Wavelength	λ_c	784.5±0.5	785.5±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		A
	Operating Current	I _{op}	1.18		A
	Operating Voltage	V _{op}	1.91		V
	Slope Efficiency	η_{es}	0.73		W/A
	PD Parameter	I _{mo}	<2000		μA
	Thermistor	R _t	10±5%/3450		kΩ/β(25°C)
	TEC max Current	I _{max}	2.5		A
	TEC max Voltage	V _{max}	6.3		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	784.5 Laser(+)	7	PD(P)
2	784.5 Laser(-)	8	TEC(+)
3	785.5 Laser(+)	9	Thermistor
4	785.5 Laser(+))	10	Thermistor
5	PD(N)	11	
6	TEC(-)	12	

