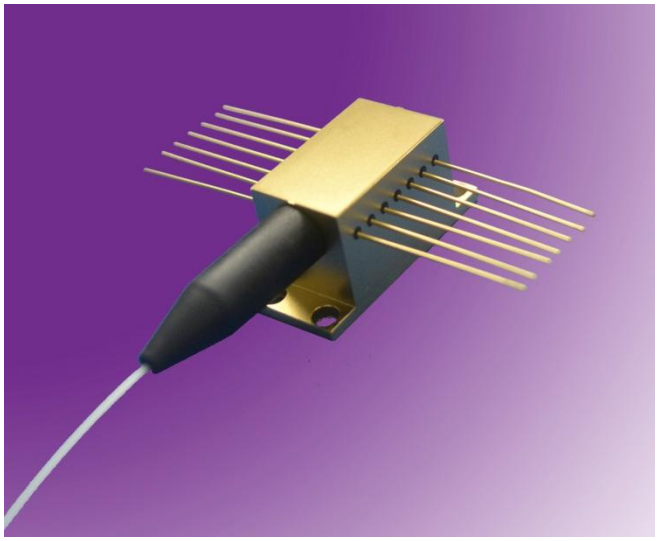
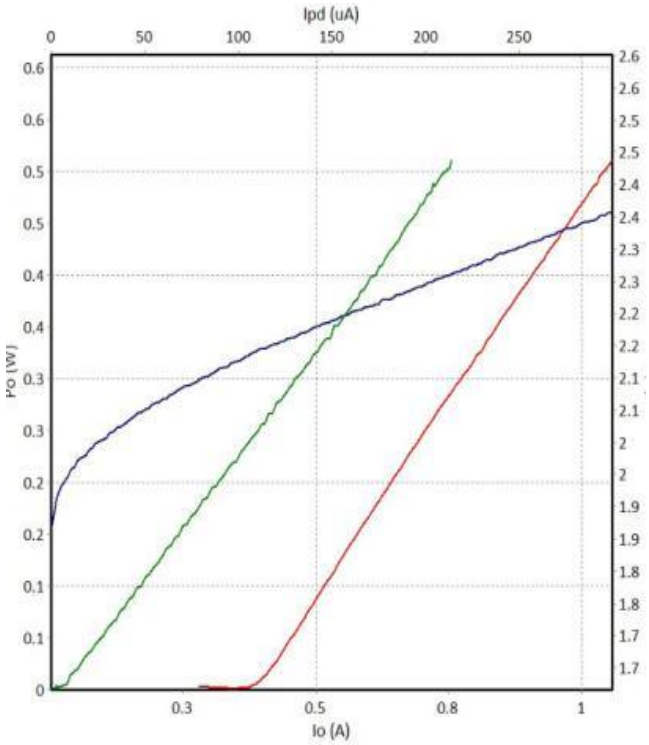
635nm 500mW Laser Diode Module

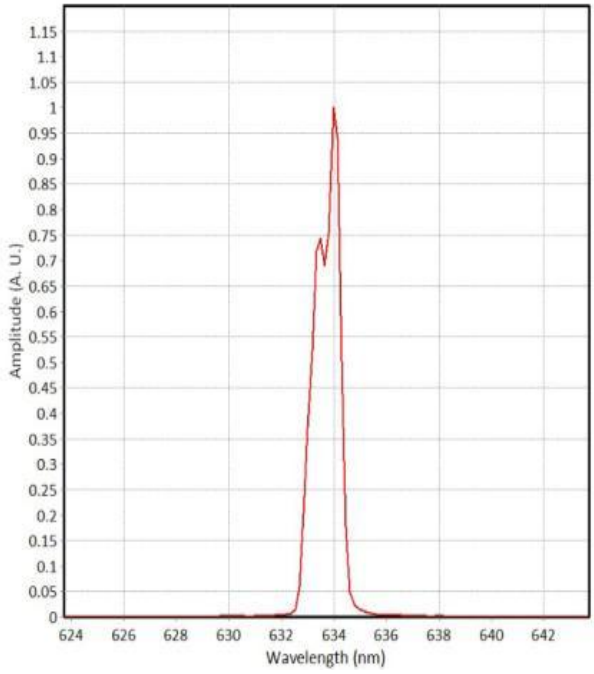
R635±3–500mWF–14BTF–T



Feature
Output power: 500mW
Wavelength: 635±3nm
Fiber core: 200 μm, 0.22NA
Application
Medical use
Laser display

635nm 500mW Characteristics (20˚C)





Typical Device Performance(25℃)

Parameter		Symbol	Typical Value	Unit
			R635±3–500mWF–14BTF–T	
Optical	CW Output Power	Pop	500	mW
	Center Wavelength	λc	635±3	nm
	Spectral Width	Δλ	⩽3	nm
	Temperature drift of wavelength	Δλ /ΔT	0.3	nm/℃
Electrical	Threshold Current	Ith	0.39	A
	Operating Current	Iop	1.04	A
	Operating Voltage	Vop	2.35	V
	Slope Efficiency	ηes	0.77	W/A
	PD Parameter	Ipd	<2000	μA
	Thermistor	Rt	10±5%/3450	kΩ/β(25℃)
	TEC max Current	Imax	2.2	A
	TEC max Voltage	Vmax	8.7	V
Fiber	Fiber Core Diameter	dcore	200	μm
	Fiber Clad Diameter	dclad	220	μm
	Fiber Buffer Diameter	dbuffer	400	μm
	Numerical Aperture	NA	0.22	-
	Connector	-	FC/PC,ST,SMA905	-

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(-)