



**Electro Optical Components, Inc.**

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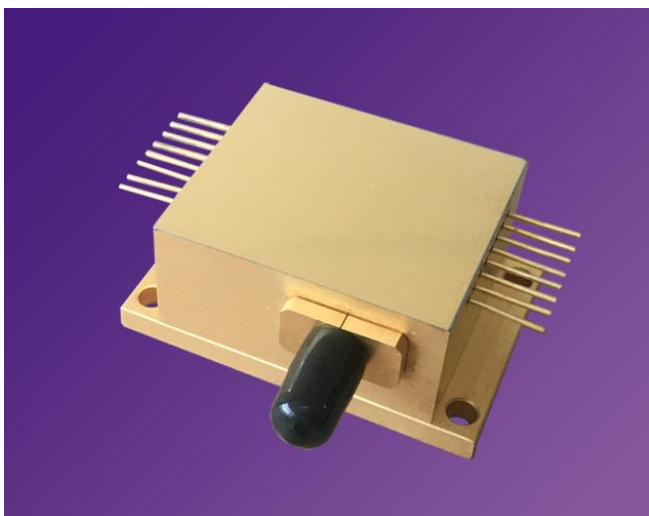
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## 650 & 808 & 980nm Laser Diode Module

R650/808/980±10-0.3/7/7WD-R4W



### Feature

Output power: 0.3W@650nm  
7W@808nm  
7W@980nm

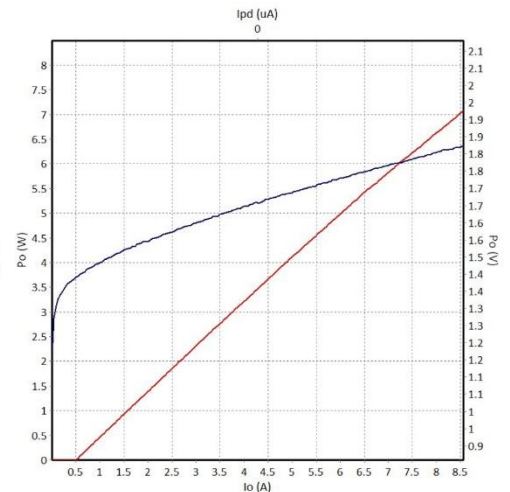
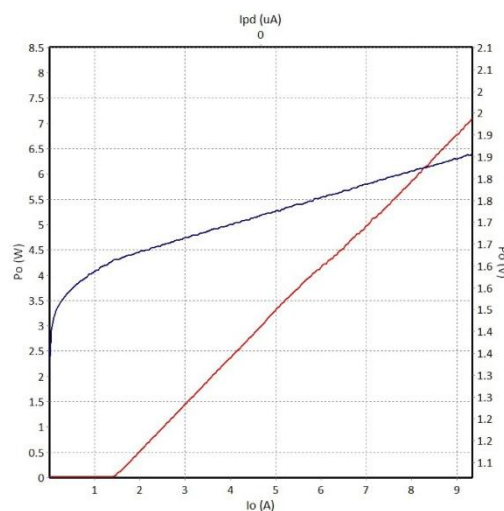
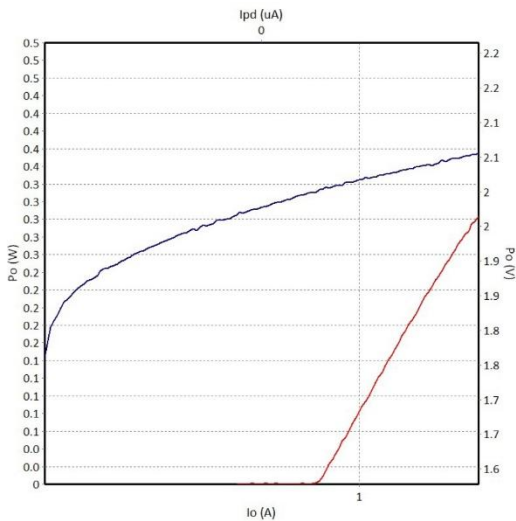
Wavelength: 650±10nm  
808±10nm  
980±10nm

Fiber core: 400µm, 0.22NA

### Application

Medical use

## 650&808&980nm Characteristics (25°C)



## Typical Device Performance(25°C)

Parameter		Symbol	Typical Value			Unit
			R650/808/980±10-0.3/7/7WD-R4W			
Optical	CW Output Power	$P_{op}$	0.3@650nm	7@808nm	7@980nm	mW
	Center Wavelength	$\lambda_c$	650±10	808±10	980±10	nm
	Spectral Width	$\Delta\lambda$	≤5			nm
	Temperature drift of wavelength	$\Delta\lambda / \Delta T$	0.3			nm/°C
Electrical	Threshold Current	$I_{th}$	0.87	1.45	0.50	A
	Operating Current	$I_{op}$	1.37	9.24	8.47	A
	Operating Voltage	$V_{op}$	2.05	1.85	1.82	V
	Slope Efficiency	$\eta_{es}$	0.6-0.9			W/A
	PD Parameter	$I_{pd}$	<3000			μA
	Thermistor	$R_t$	10±5%/3450			kΩ/β(25°C)
Fiber	Fiber Core Diameter	$d_{core}$	400			μm
	Numerical Aperture	NA	0.22			-
	Connector	-	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	FCD LED(-)	9	980nm Laser(+)
2	FCD LED(+) FCD PD(N)	10	980nm Laser(-)
3	FCD PD(P)	11	808nm Laser(+)
4	Aiming Beam LD(+) [DC 5V]; PD(N)	12	808nm Laser(-)
5	Aiming Beam LD(-)	13	--
6	PD(P)	14	--
7	Thermistor	15	--
8	Thermistor	16	--

