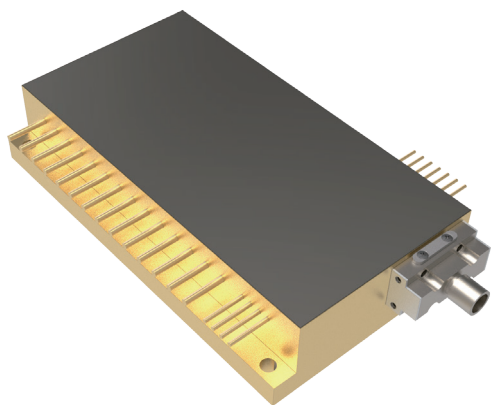




R13D-675nm High Power Diode Laser Components

R13D-675nm diode laser components are RealLight's AW series multi-function laser modules, providing single-wavelength output. These fiber detachable lasers are equipped with aiming beam, fiber detector, photodiode and thermistor.

Key Features

- ◆ Superior power stability
- ◆ Excellent beam quality
- ◆ Efficient heat dissipation
- ◆ High reliability
- ◆ Different-wavelength combinations available

Applications

Spectroscopic Detection
Biomedicine
Material Analysis
Display&Lighting
Laser Manufacturing

Technical Specifications (25°C)

Package Type		R13D
		Single-wavelength
Center Wavelength (nm)		675
Optical	CW Output Power / P _{op} (W)	15
	Wavelength Tolerance (nm)	±10
	Spectral Width / Δλ (nm)	<4
	Temperature Drift of Wavelength / Δλ/ΔT (nm/°C)	0.3
Aiming Beam	Output Power / P _a (mW)	5
	Wavelength / λ _a (nm)	520±10
	Threshold Current / I _{th} (A)	0.02
	Operating Current / I _{op} (A)	0.08
	Voltage / V _a (V)	5.5
Electrical	Threshold Current / I _{th} (A)	0.5
	Operating Current / I _{op} (A)	2.1
	Operating Voltage / V _{op} (V)	23
	Slope Efficiency / η _{es} (W/A)	9
	PD Parameter / I _{pd} (μA)	<8000
	Thermistor / Rt (kΩ/β (25°C))	10±1%/3930
Fiber	Fiber Core Diameter / D _{core} (μm)	200
	Fiber Cladding Diameter / D _{clad} (μm)	220
	Fiber Coating Diameter / D _{buffer} (μm)	400
	Numerical Aperture / NA	0.22
	Connector	SMA905

1. All the data in the above table are the typical values obtained from the tests at room temperature of 25°C, and the final data is subject to the final test report.

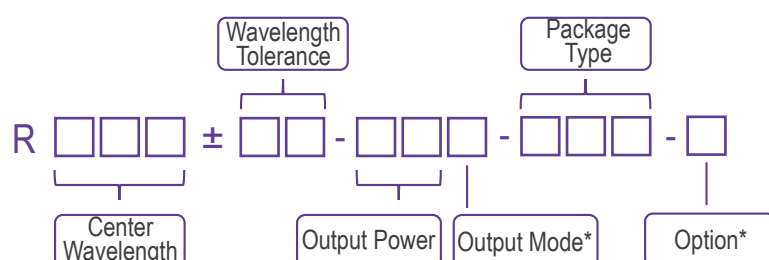
Other Parameters

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.)

Order Information

Package	Wavelength (nm)	Output Power (W)	Part Number
R13D	675	15	R675±10-15WD-R13D-PFS

Part Numbering Schema



*Output Mode: D - Fiber Detachable

*Option: P - Pilot Light

FS - Fiber Detector

Mechanical Drawings (in mm)

