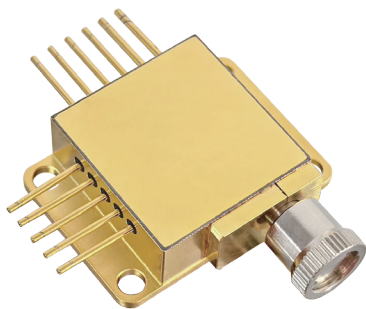




11RTR Diode Laser Components

11RTR diode laser components are RealLight's AW series multi-function laser modules, available in fiber detachable configuration with single emitter. Equipped with aiming beam, fiber detector, photodiode and thermistor, these lasers feature easy maintenance and high power stability.

Key Features

- ◆ Efficient heat dissipation
- ◆ High reliability
- ◆ Superior power stability
- ◆ Excellent beam quality
- ◆ Various wavelengths

Applications

Aesthetic medicine
Laser processing
Scientific research

Technical Specifications (25°C)

Package Type		11RTR		
Center Wavelength (nm)		808	940/976/980	1064
Optical	CW Output Power / P_{op} (W)	9	15	10
	Wavelength Tolerance (nm)	± 10		
	Spectral Width / $\Delta\lambda$ (nm)	<4		
	Temperature Drift of Wavelength / $\Delta\lambda/\Delta T$ (nm/°C)	0.3		
Aiming Beam	Output Power / P_a (mW)	2		
	Wavelength / λ_a (nm)	650 $\pm$ 10		
	Voltage / V_a (V)	5		
Electrical	Threshold Current / I_{th} (A)	1.2	1.2	1.2
	Operating Current / I_{op} (A)	12	18	13
	Operating Voltage / V_{op} (V)	2	2	2
	Slope Efficiency / η_{es} (W/A)	0.9	0.9	0.9
	PD Parameter / I_{pd} (μ A)	<3000		
	Thermistor / R_t (k Ω/β (25°C))	10 $\pm$ 1%/3930		
Fiber	Fiber Core/Cladding Diameter D_{core} (μ m)	200/220		
	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.

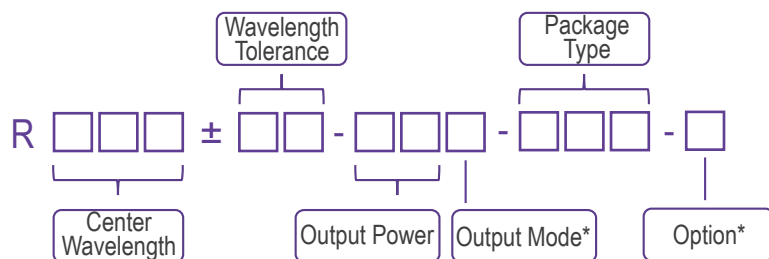
Other Parameters

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
11RTR	808	9	R808±10-9WD-11RTR-PFS
	9xx (940/976/980)	15	R9xx±10-15WD-11RTR-PFS
	1064	10	R1064±10-10WD-11RTR-PFS

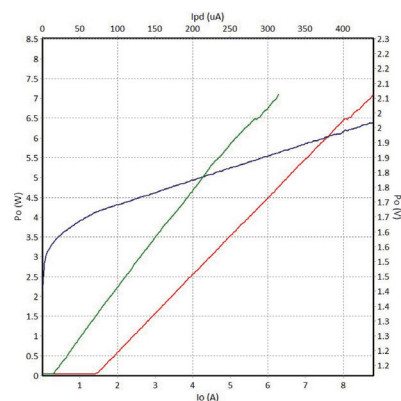
Part Numbering Schema



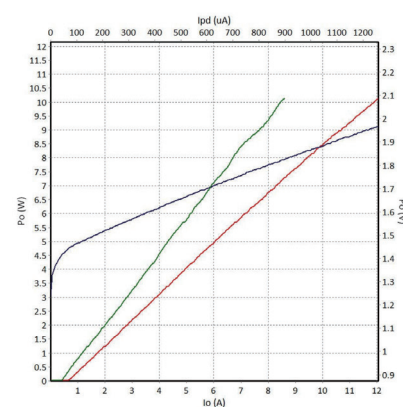
*Output Mode: D - Fiber Detachable

*Option: P - Pilot Light

FS - Fiber Detector

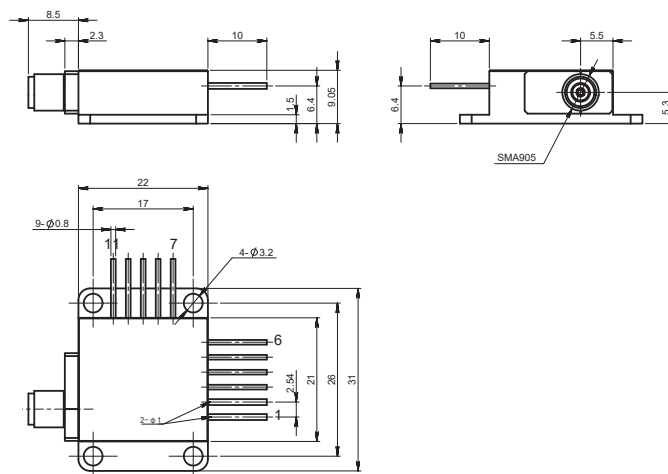


808nm P-I-V Graph



980nm P-I-V Graph

Mechanical Drawings (in mm)



11RTR

11RTR			
Pin	Function	Pin	Function
1	Laser (+)	7	Thermistor
2	Laser (-)	8	Thermistor
3	PD(N)	9	FCD PD(P)
4	PD(P)	10	FCD LED(-)
5	Aiming Beam(-)	11	FCD LED(+)
6	Aiming Beam(+)		FCD PD(N)

