

08BULT Diode Laser Components



08BULT 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

- ◆ Compact size
- ◆ High reliability
- ◆ Superior power stability
- ◆ Excellent beam quality
- ◆ Various wavelengths

Applications

- Medical application
- Material processing

Technical Specifications (25°C)

Package Type		08BULT	
Center Wavelength (nm)		808	980
Optical	CW Output Power / P _{op} (W)	2	3
	Wavelength Tolerance (nm)	±10	
	Spectral Width / Δλ (nm)	<6	
	Temperature Drift of Wavelength / ΔNΔT (nm/°C)	0.3	
Aiming Beam	Output Power / Pa (mW)	2	
	Wavelength / λa (nm)	650±10	
	Voltage / Va (V)	2.2	
Electrical	Threshold Current / I _{th} (A)	0.4	0.6
	Operating Current / I _{op} (A)	2.4	4
	Operating Voltage / V _{op} (V)	2.1	2.2
	Slope Efficiency / η _{es} (W/A)	1	0.9
	Thermistor / Rt (kΩ/β (25°C))	10±5%/3450	
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	

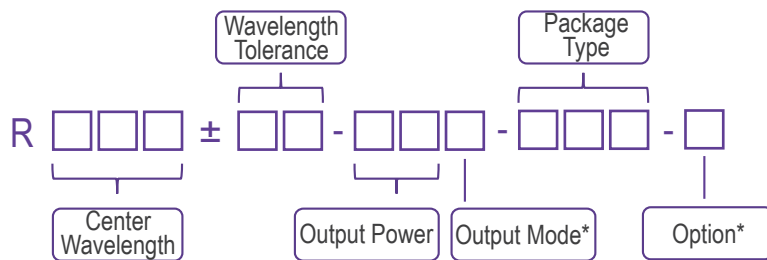
Other Parameters

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
08BULT	808	2	R808±10-2WD-08BULT-PFS
	980	3	R980±10-3WD-08BULT-PFS

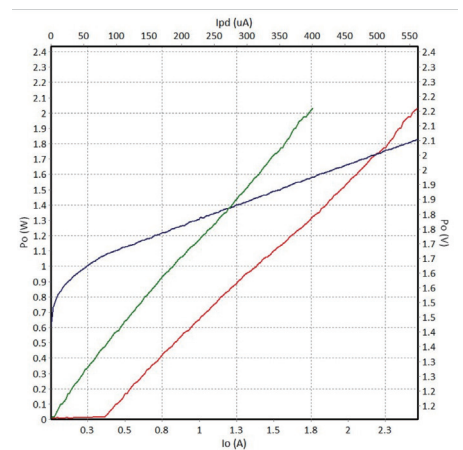
Part Numbering Schema



*Output Mode: D - Fiber Detachable

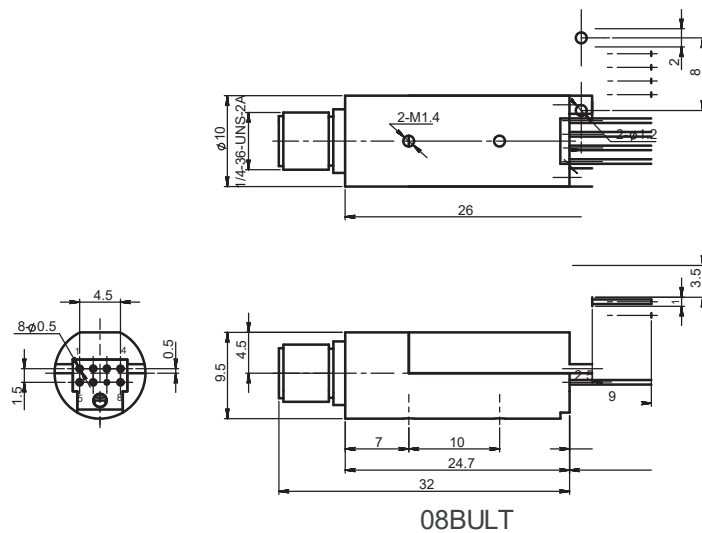
*Option: P - Pilot Light

FS - Fiber Detector



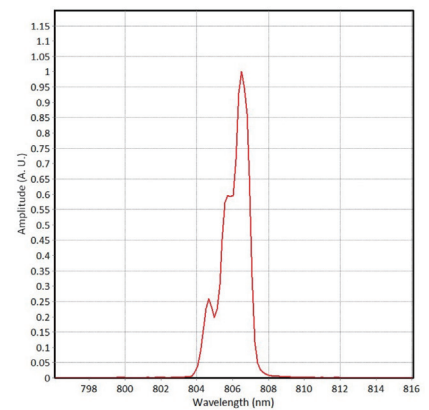
808nm P-I-V Graph

Mechanical Drawings (in mm)



08BULT

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



808nm Spectrum

