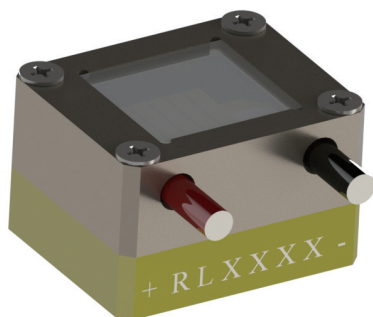


GS11 Conduction-cooled Vertical Stacked Diode Laser Array



GS11 conduction-cooled vertical stacked diode laser array is developed by RealLight independently, it realized to be used in ms-level applications from μ s-level. This laser component integrates sealed optical windows with dust proof function, which is available to monitor temperature, and can meet with the customers' applications in different environments.

Key Features

- ◆ AuSn solder for packaging
- ◆ High conversion efficiency
- ◆ High peak power
- ◆ High reliability

Applications

- Illumination
- Pumping source
- Scientific research

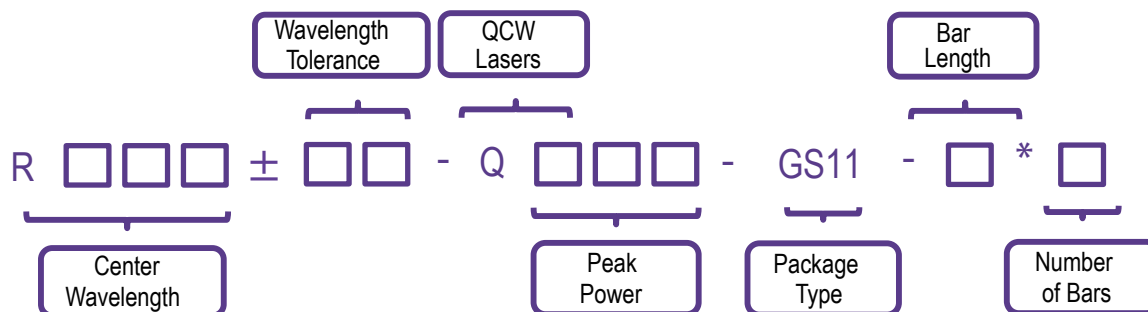
Technical Specifications

Optical Parameters	
Part Number	R808 \pm 10-Q480-GS11-10*4
Center Wavelength λ_c (nm)	808
Wavelength Tolerance $\delta\lambda_c$ (nm)	\pm 10
Output Power per Bar (W)	120
Number of Bars	4
Bar-to-Bar Pitch (mm)	1.65
Spectral Width (FWHM) (nm)	<5
Slope Efficiency per Bar (W/A)	>1.1
Fast Axis Divergence Angle (FWHM) ($^\circ$)	40
Slow Axis Divergence Angle (FWHM) ($^\circ$)	10
Wavelength Temperature Coefficient (nm/ $^\circ$ C)	\sim 0.3
Electrical Parameters	
EO Conversion Efficiency (%)	>50
Threshold Current I_{th} (A)	<15
Operating Current I_{op} (A)	<130
Operating Voltage V_{op} of each Bar (V)	<2
Duty Cycle (%)	<2
Pulse Width (μ s)	<3000
Repetition Rate (Hz)	<100
Environment Parameters	
Operating Temperature ($^\circ$ C)	20~35
Storage Temperature ($^\circ$ C)	0~55

Notes:

- 1.Wavelengths from 940nm to 960nm available upon request.
- 2.Wavelengths from 792nm to 818nm available upon request.
- 3.Do not operate it beyond normal operating conditions, otherwise, the service life of the device might be shortened.
- 4.Make sure that there is no condensation in operating or storage environment.

Part Numbering Schema



Mechanical Drawings (in mm)

