

High Power Water Cooled Laser Stack

Wavelength 1532.5 ± 10 nm

Princeton Lightwave offers a series of high power 1532 nm stacks. An MQW laser structure assures high power.



Features

- Power to 300 W cw

Applications

- High power pump for defense and medical applications

Key Product Specifications Long Wavelength Stacked Array

Model**	HP1-2D-2F	HP3-2D-2F	units
Power (cw)	100	300	W
Peak Wavelength	1532.5 ± 10	1532.5 ± 10	nm
Spectral Width	8	8	nm
Wavelength Locked	No	No	No
Operating Voltage	5.2	13	V
Operating Current	110	110	A
Threshold Current	<20	<20	A
Slow Axis Div. (FWHM)	<10°	<10°	degrees
Fast Axis Div. (FWHM)	42°	42°	deg./mrad
Element Width	100	100	μm
Elements/Arrays	15-20	15-20	
Number of Arrays	4	10	
Bar Pitch	1.8	1.8	mm
Polarization	TE	TE	
Flow Rate	1.6	4	liter/min
Operating Temperature	15	15	deg. C

Notes:

§ 70% of the power in this interval

* Estimated value based on 10 stack array

** Reliability currently under investigation

Power 100, 300

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