

## Datasheet: Necsel™ Blue NovaLum VHP Laser

These specifications are for the Necsel blue NovaLum VHP package. The centroid of the wavelength spectrum will be within the indicated wavelength range.

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Model #	Symbol	Min. (nm)	Typical (nm)	Max. (nm)
Blue-VHP-44x	λ	440	445	449

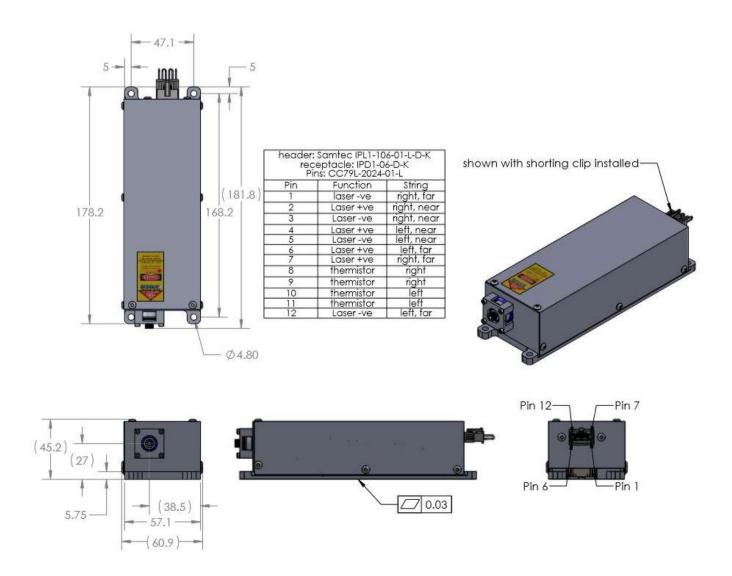
## **Operating Wavelengths**

Laser Parameter	Symbol	Min.	Typical	Max.	Unit
Operating Power (CW)	P <sub>op</sub>	-	24	-	W
Module Operating Temperature [non-condensing atmosphere]	$T_{Thermistor}$	-	30	-	°C
Center Wavelength [at 25°C and Pop]	λ	440	445	449	nm
Wavelength Temperature Coefficient	-	-	0.1	-	nm/°C
Threshold Current	$I_{th}$	-	350	-	mA
Slope Efficiency	η	-	18	-	W/A
Laser Power Conversion Efficiency	PCE	-	27	-	%
Power Supply Requirements					
Operating Voltage (4 strings in series)	$V_{op}$	36	52	58	V
Operating Voltage per string	$V_{op}$	9	13	14.5	V
Allowable Reverse Current	$I_r$	-	-	85	mA
Operating Current	$I_{op}$	-	1.7	2.0	Α
Fiber Specifications					
Fiber Core Diameter			0.400		mm
(Centration ≤ 10 um)			0.400		111111
Connector Type (Nose length 0.3850 - 0.3863 in.,			SMA-905		
9.779 – 9.812 mm)			JIVIA-303		
Numerical Aperture			0.22		





## **Outline Drawing and Electrical Connections**



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