

Datasheet: Necsel™ Blue DE Laser

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

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



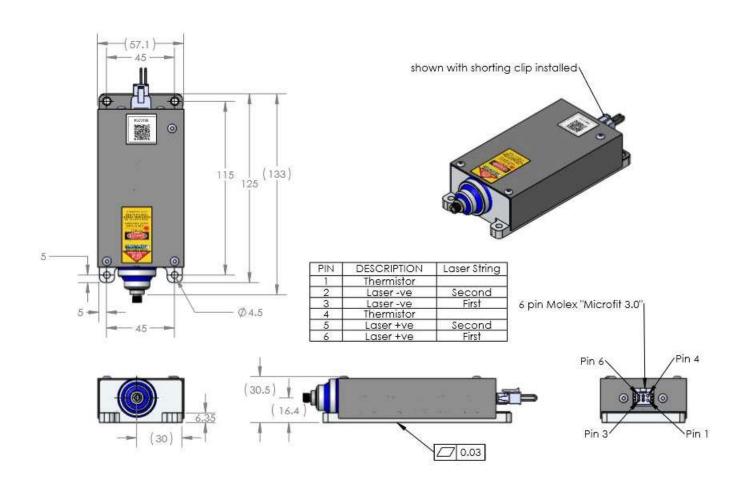
Operating Wavelengths

Laser Parameter	Symbol	Min.	Typical	Max.	Unit
Operating Power (CW)	P _{op}	-	10.0	-	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	-	8.0	-	W/A
Laser Power Conversion Efficiency	PCE	-	28	-	%
Power Supply Requirements					
Operating Voltage (5 in series)	V_{op}	12.0	22.5	24.0	V
Operating Voltage String 2 (3 in series)	V_{op}	6.0	13.5	14.4	V
Operating Voltage String 1 (2 in series)	V_{op}	6.0	9.0	9.6	V
Operating Current	l _{op}	-	1.6	1.7	Α
Allowable Reverse Current	l _r	-	-	85	mA
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)					
Numerical Aperture			0.22		





Outline Drawing and Electrical Connections



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