

## Datasheet: Necsel™ Red High Power CS Mounted Bar

These specifications are for the Necsel red high power CS mounted bar with FAC/SAC lensing. The centroid of the wavelength spectrum will be within the indicated wavelength range.

Model #	Symbol	Min. (nm)	Typical (nm)	Max. (nm)
Red-HP-65x	λ	653	657	661



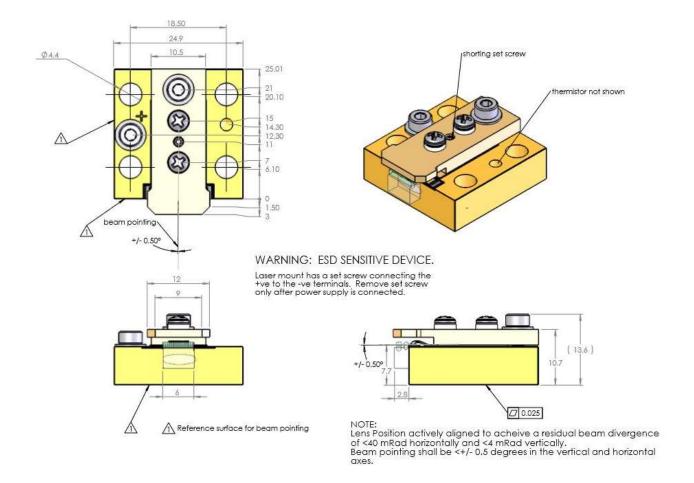
## **Operating Wavelengths**

Laser Parameter	Symbol	Min.	Typical	Max.	Unit
Operating Power (CW)	Pop	-	7.0	-	W
Module Operating Temperature [non-condensing atmosphere]	$T_{Thermistor}$	-	25	30	°C
Center Wavelength [at 25°C and Pop]	λ	653	657	661	nm
Spectral Width @ FWHM	$\Delta\lambda$	-	1	3	nm
Wavelength Temperature Coefficient	-	-	0.2	-	nm/°C
Threshold Current	$I_{th}$	-	3.5	-	Α
Slope Efficiency	η	-	0.95	-	W/A
Array Specifications					
Number of Output Beams	N	18	20	20	-
Emitting Area Width	$W_{ea}$	-	40	-	μm
Emitting Area Period	$L_{ea}$	-	200	-	μm
Fill Factor	FF	-	20	-	%
Lensing					
Fast-Axis Collimation	FAC	-	3	4	mRad
Slow-Axis Collimation	SAC	-	33	40	mRad
Power Supply Requirements					
Operating Voltage	$V_{op}$	-	2.4	3.0	V
Operating Current	$I_{op}$	-	10	12	Α





## **Outline Drawing and Electrical Connections**



Necsel follows a policy of continious product improvement and may change product descriptions and specifications at any time without notice. Necsel offers a limited product warranty to ensure customer satisfaction. Standard terms and conditions can be found on the web at http://necsel.com/terms-conditions. This product is solely intended to be integrated into a laser product certified by the Customer. The Customer acknowledges that their product(s) that incorporate Necsel laser products must comply with the applicable regulations before it can be sold.







