

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-63x	λ	634	637	642



Operating Wavelengths

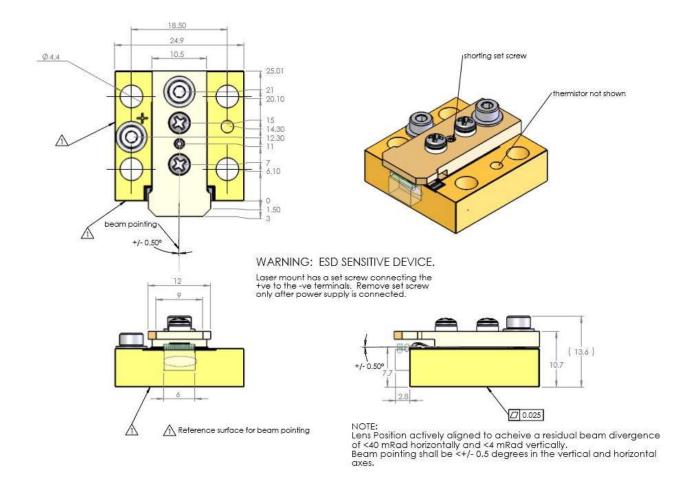
Laser Parameter	Symbol	Min.	Typical	Max.	Unit
Operating Power (CW)	P _{op}	-	6.0	-	W
Module Operating Temperature [non-condensing atmosphere]	$T_{Thermistor}$	-	25	30	°C
Center Wavelength [at 25°C and Pop]	λ	634	637	642	nm
Spectral Width @ FWHM	$\Delta\lambda$	-	1	3	nm
Wavelength Temperature Coefficient	-	-	0.2	-	nm/°C
Threshold Current	I_{th}	-	4.0	-	Α
Slope Efficiency	η	-	0.95	-	W/A

Array Specifications	Symbol	Min.	Typical	Max.	Unit
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	Symbol	Min.	Typical	Max.	Unit
Fast-Axis Collimation	FAC	-	3	4	mRad
Slow-Axis Collimation	SAC	-	33	40	mRad
Power Supply Requirements	Symbol	Min.	Typical	Max.	Unit
Operating Voltage	V _{op}	-	2.4	3.0	V
Operating Current	lop	-	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.







