

## Datasheet: Necsel™ Green SHG FS Laser

These specifications are for the Necsel green SHG free space package. The centroid of the wavelength spectrum will be within the indicated wavelength range.

Model #	Symbol	Min. (nm)	Typical (nm)	Max. (nm)
Necsel-SHG-FS-53x	λ	530	-	539



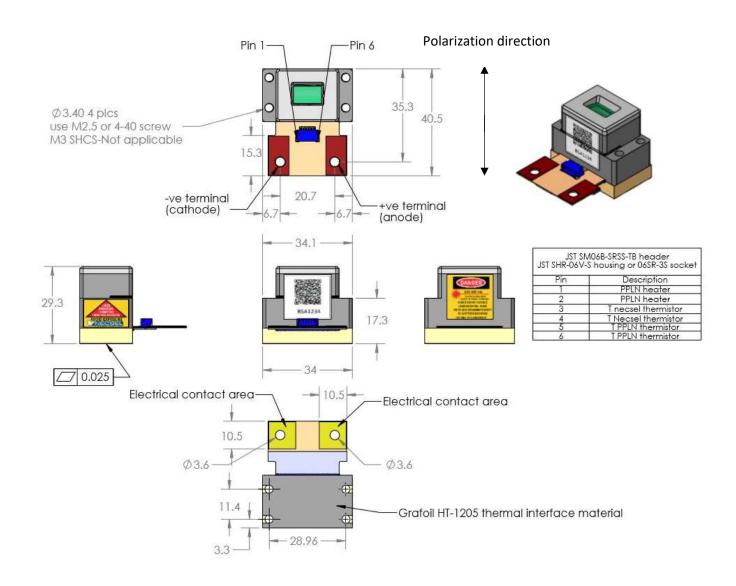
# **Operating Wavelengths**

Laser Parameter	Symbol	Min.	Typical	Max.	Unit
Operating Power (CW)	P <sub>op</sub>	3.0	-	-	W
Module Operating Temperature [non-condensing atmosphere]	$T_{Thermistor}$	-	30	-	°C
Center Wavelength [at 25°C and Pop]	λ	530	-	539	nm
Spectral width @ FWHM	$\Delta\lambda$	-	0.2	-	nm
Laser Power Conversion Efficiency	PCE	-	6.5	-	%
Single Beam Specifications					
Beam Diameter at <sup>1</sup> /e <sup>2</sup>	$2\omega_{r}$	-	0.08	0.15	mm
Beam Divergence, Full Angle at 1/e2	$\theta_{r}$	8	10	14	mrad
Array Specifications					
Number of rows	-	2	-	2	-
Number of output beams per row	N	20	24	24	-
Row separation	-	-	2.1	-	mm
Emitter Pitch	d	-	0.328	-	mm
Polarization ratio	-	100:1	150:1	2000:1	-
IR leakage [diffuse]	$P_IR$	-	3	5	mW
Power Supply Requirements					
Operating Voltage	$V_{op}$	-	2.5	3.0	V
Operating Current	$I_{op}$	-	18	23	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.











# Datasheet: Necsel™ Green SHG FC Laser

These specifications are for the Necsel green SHG fiber-coupled package. The centroid of the wavelength spectrum will be within the indicated wavelength range.

Model #	Symbol	Min. (nm)	Typical (nm)	Max. (nm)
Necsel-SHG-FC-53x	λ	530	-	539



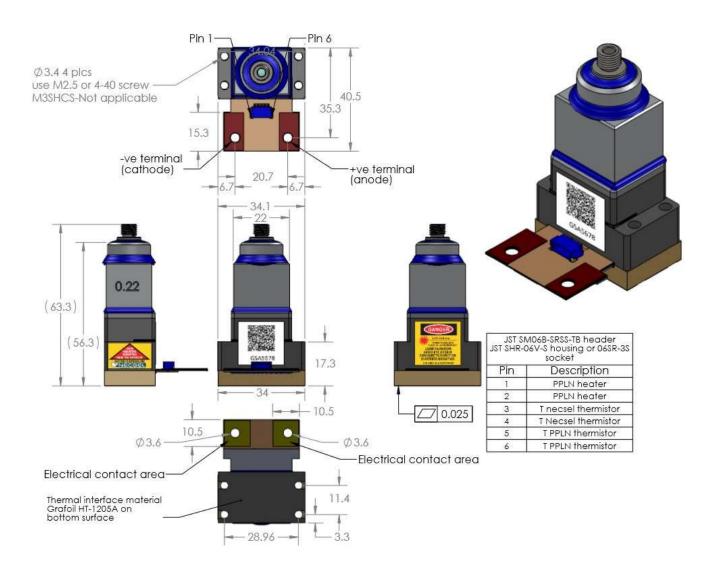
## **Operating Wavelengths**

Laser Parameter	Symbol	Min.	Typical	Max.	Unit
Operating Power (CW)	P <sub>op</sub>	2.5	-	-	W
Module Operating Temperature [non-condensing atmosphere]	$T_{Thermistor}$	-	30	-	°C
Center Wavelength [at 25°C and Pop]	λ	530	-	539	nm
Spectral width @ FWHM	$\Delta\lambda$	-	0.2	-	nm
Laser Power Conversion Efficiency	PCE	-	5.5	-	%
Power Supply Requirements					
Operating Voltage	$V_{op}$	-	2.5	3.0	V
Operating Current	l <sub>op</sub>	-	18	23	Α
Fiber Specifications					
Fiber Core Diameter (Centration ≤ 10 um)			0.400		mm
Connector Type					
(Nose length 0.3850 - 0.3863 in.,			SMA-905		
9.779 – 9.812 mm)					
Numerical Aperture			0.22		





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