Necsel™ Green DE Laser

Green 52x nm Direct Emitting Laser

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

Model #	Symbol	Min. (nm)	Typical (nm)	Max. (nm)
Green-3.5-DE-52x	λ	523	530	535

Operating Wavelengths

Laser Parameter	Symbol	Min.	Typical	Max.	Unit
Operating Power (CW)	P_{op}	3.5	—	—	W
Module Operating Temperature [Non-condensing Atmosphere]	$T_{Thermistor}$	—	30	35	°C
Center Wavelength [at 25°C and P_{op}]	λ	523	530	535	nm
Wavelength Temperature Coefficient	—	—	—	0.1	nm/°C
Threshold Current	I_{th}	—	300	—	mA
Laser Power Conversion Efficiency	PCE	—	9	—	%

Power Supply Requirements	Symbol	Min.	Typical	Max.	Unit
Operating Voltage (5 in series)	V_{op}	20	23	30	V
Operating Voltage String 2 (3 in series)	V_{op}	12	14	18	V
Operating Voltage String 1 (2 in series)	V_{op}	8	9	12	V
Operating Current	I_{op}	—	1.65	1.8	A
Allowable Reverse Current	I_r	—	—	85	mA

Fiber Specifications	Symbol	Min.	Typical	Max.	Unit
Fiber Core Diameter (Centration ≤ 10 um)	—	—	0.400	—	mm
Connector Type (Nose Length 0.3850 - 0.3863 in., 9.779 – 9.812 mm)	—	—	SMA-905	—	—
Numerical Aperture	—	—	0.22	—	—

Powered by:
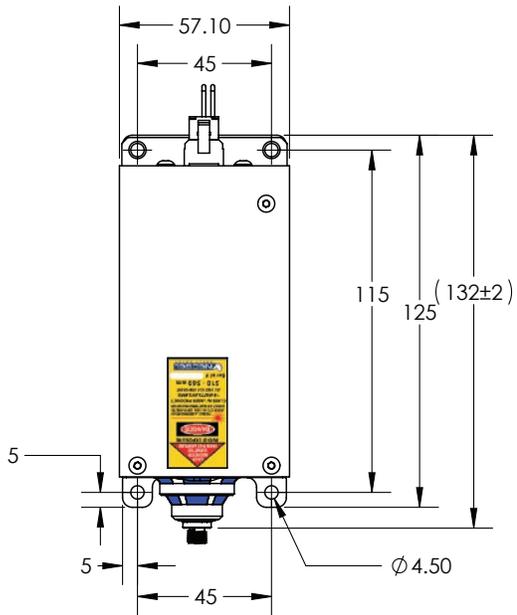
NECSEL

PIN	DESCRIPTION	Laser String
1	Thermistor	
2	Laser -ve	Second
3	Laser -ve	First
4	Thermistor	
5	Laser +ve	Second
6	Laser +ve	First

6 pin Molex "Microfit 3.0"

Pin 6 Pin 4

Pin 3 Pin 1
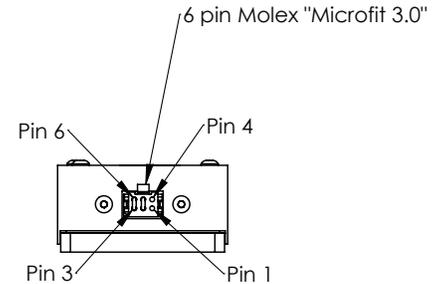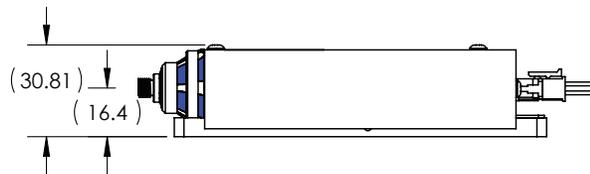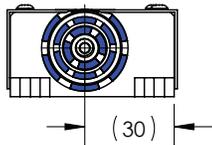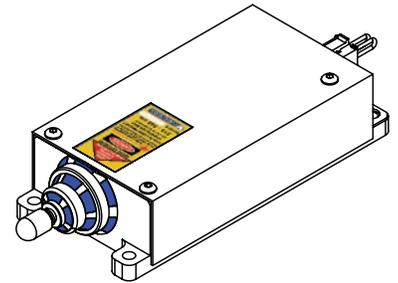
Necsel follows a policy of continuous product improvement and may change product descriptions and specifications at any time without notice. Necsel offers a limited product warranty to ensure customer satisfaction. Standard terms and conditions can be found on the web at www.ushio.com/corporate/terms-conditions. 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.

RoHS COMPLIANT

⚠ **CAUTION**
Electrostatic Sensitive Device

DANGER
VISIBLE AND INVISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION
CLASS 4 LASER PRODUCT

USHIO