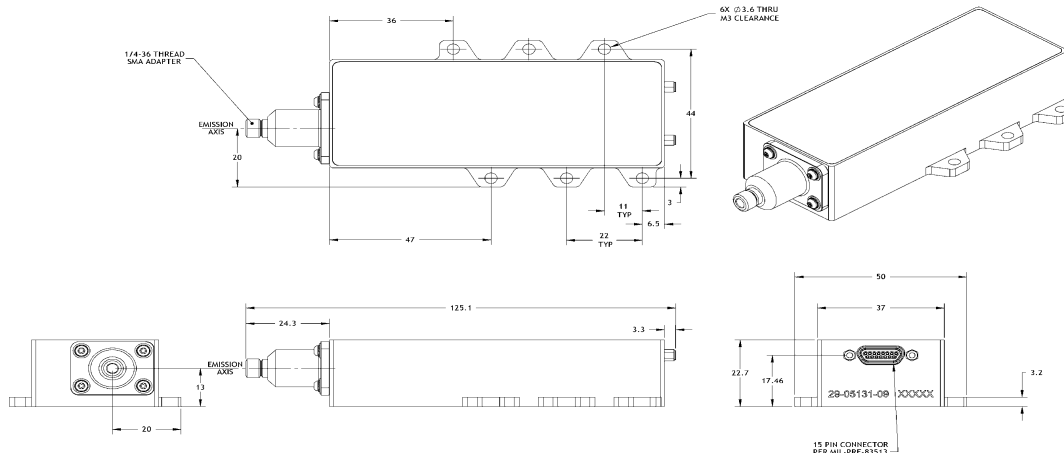


Model Number NL-P4-050-1550-10
Item Description 1550nm 400um Fiber-coupled Module

ECCN: 6A005³

	Units	Lower Spec	Typical	Upper Spec
Optical				
CW Output Power	W		50	
Centroid Wavelength	nm	1540	1550	1560
Spectral Width (FWHM)	nm			10
Slope Efficiency	W / A		5.8	
Beam Divergence from Fiber (90% PE)	NA		0.17	0.20
Fiber Core / Clad Diameter	μm		400 / 480	
Fiber NA / Index Type	-		0.22 / PowerCore™	
Electrical				
Electrical-to-Optical Efficiency	%	22	27	
Threshold Current	A		1.9	
Operating Current	A		10.5	14.0
Operating Voltage	V		16.9	19.3
Series Resistance	Ω		0.4	
Mechanical				
Mass ⁷	g		190	
Fiber Length	m	1.9	2.0	2.1
Fiber Bend Radius (Active / Storage)	mm		75 / 65	
Fiber Jacketing	-		Stainless Steel Squarelock	
Fiber Termination	-		SMA	
Thermal				
Thermal Resistance ⁴	°C / W		0.36	
Waste Heat	W		128	
Operating Housing Temperature ⁶	°C		+25	
Wavelength Temperature Coefficient ⁵	nm / °C		0.48	

Outline Drawing



Notes

- ¹Production specifications shown are for beginning of life performance, end of life operating current (lop) is 120% beginning of life lop
²Current phase within nLIGHT's NPI (New Production Introduction) process
³Export Control Classification Number (ECCN) as defined by the Export Administration Regulations (EAR)
⁴Thermal resistance is the diode junction temperature shift per incremental Watt of heat load
⁵The wavelength temperature coefficient is the wavelength shift per °C change at the diode junction
⁶Operating temperature defined by the package housing. Acceptable operating range is 20 - 35C, but performance may vary
⁷Does not include mass of fiber

This product is not certified in accordance with IEC 60825-1 or 21CFR1040.10/ 21CFR1040.11 and is solely intended to be integrated into a laser product certified by the Purchaser. The Purchaser acknowledges that their product (incorporating the nLIGHT laser product) must comply with the applicable regulations before it can be sold.

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

Notice

nLIGHT continually improves its products to provide customers with outstanding quality and reliability, therefore may change certain specifications and product descriptions at any time, without notice. Additionally, nLIGHT offers a limited warranty to ensure customer satisfaction. For complete details, please contact an nLIGHT sales representative.



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