Pearl™

PRODUCT SPECIFICATIONS[1]

Item Number

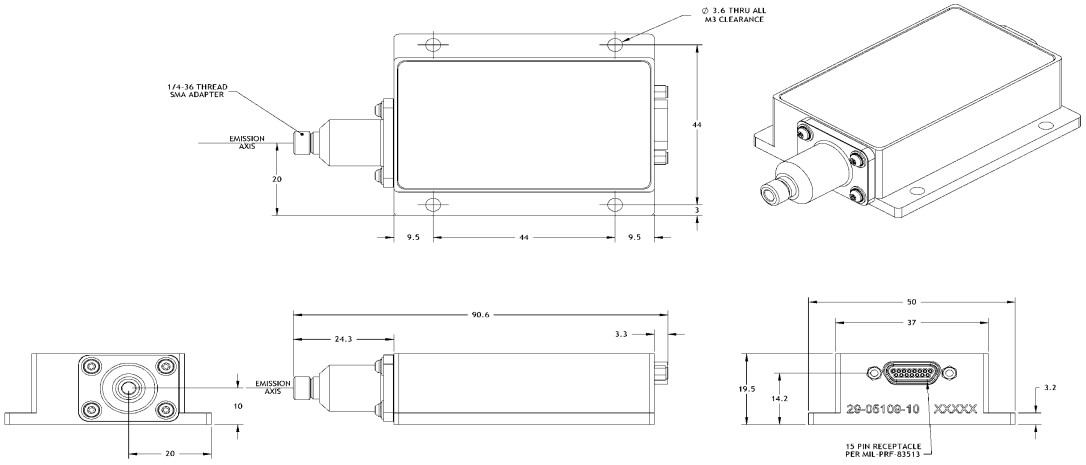
Item Description 885nm 400um Fiber-coupled Module

Pilot Production Phase [2]

ECCN: EAR99 [3]

	Units	Lower Spec	Typical	Upper Spec
Optical				
CW Output Power	W		80	
Centroid Wavelength	nm	882	885	888
Spectral Width (FWHM)	nm			3.5
Slope Efficiency	W / A		10.4	
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	%	49	56	
Threshold Current	A		1.2	
Operating Current	A		8.9	10.3
Operating Voltage	V		16.2	17.4
Series Resistance	Ω		0.2	
Mechanical				
Mass [7]	g		120	
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		0.27	
Waste Heat	W		64	
Operating Housing Temperature [6]	°C		+25	
Wavelength Temperature Coefficient [5]	nm / °C		0.31	

Outline Drawing



Notes

[1] Production specifications shown are for beginning of life performance, end of life operating current (Iop) is 120% beginning of life Iop

[2] Current phase within nLIGHT's NPI (New Production Introduction) process

[3] Export Control Classification Number (ECCN) as defined by the Export Administration Regulations (EAR)

[4] Thermal resistance is the diode junction temperature shift per incremental Watt of heat load

[5] The wavelength temperature coefficient is the wavelength shift per °C change at the diode junction

[6] Operating temperature defined by the package housing. Acceptable operating range is 20 - 35C, but performance may vary

[7] Does 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. Additionly, nLIGHT offers a limited warranty to ensure customer satisfaction. For complete details, please contact an nLIGHT sales representative.

RoHS compliant

nLIGHT

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