PRODUCT SPECIFICATIONS
884nm 400um Fiber-coupled Module

Item Number
30489-P4-030-0884-2-B-R01

Device Specifications @ Beginning of Life

	Units	Lower Spec	Typical	Upper Spec
Optical				
Center Wavelength	nm	882	884	886
CW Output Power[6]	W		30	
Fiber Core Diameter	µm	390	400	410
Fiber Clad Diameter	µm	470	480	490
Fiber Index Type			PowerCore™	
Beam Divergence from Fiber (90% PE)	NA[1]		0.15	0.20
Vertical Afocal Divergence (1/e^2)	mrad			
Horizontal Afocal Divergence (1/e^2)	mrad			
Vertical Afocal Beam Size (1/e^2)	mm			
Horizontal Afocal Beam Size (1/e^2)	mm			
Spectral Width (FWHM)	nm			3.5
Slope Efficiency	W / A		5.6	
Electrical				
Power Conversion Efficiency	%	43	50	
Threshold Current	A	0.4	1.2	2.1
Operating Current[5]	A	5.2	6.6	8.1
Operating Voltage	V	8.5	9.4	10.3
Series Resistance	Ω		0.2	
Mechanical				
Fiber Length	m		3	
Fiber Termination (Distal End)	-		SMA	
Mass[7]	grams		460	
Thermal				
Thermal Resistance[3]	°C / W		0.45	
Operating Temperature	°C	+32.5	+42.5	+52.5
Storage Temperature Range[2]	°C	-40		+80
Wavelength Temperature Coefficient[4]	nm / °C		0.31	

Notes

[1] Numerical aperture (NA) is the sine of the half-angle encircling 90% of the optical energy from the fiber.

[2] A non-condensing environment is required for storage and operation.

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

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

[5] End of life operating current is 120% of beginning of life Iop.

[6] 20% overhead for end of life.

[7] Does not include mass of fiber.

IEC Regulation
This device does not comply with the International Regulation IEC 60825-1 as administered by the Center for Devices and Radiological Health per Laser Notice No. 50. Purchaser acknowledges that his/her products must comply with these regulations before they can be sold to a customer.

Notice
nLight continually improves its products to provide customers with outstanding quality and reliability. nLight may make changes to specifications and product descriptions at any time, without notice. In addition, nLight offers a limited warranty to ensure customer satisfaction. For complete details, please contact your nLight sales representative.

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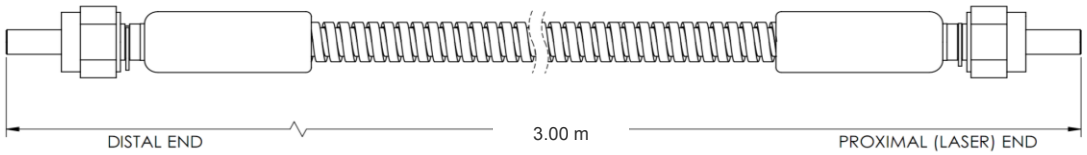
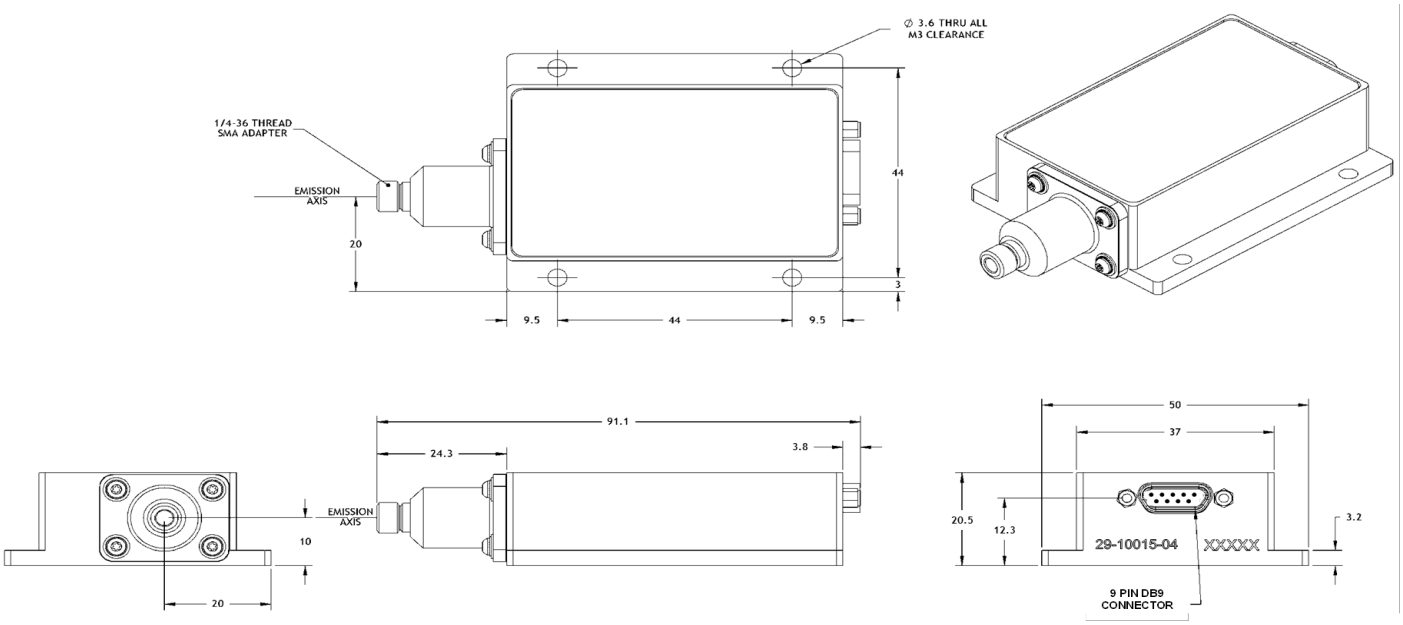
Drawings

Fiber Outline



Pearl Outline



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LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION
CLASS 4 LASER PRODUCT

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