

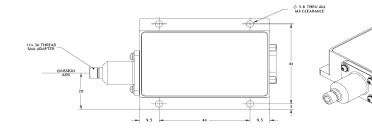
PRODUCT SPECIFICATIONS¹

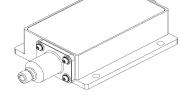
Item Number 980nm 200um Fiber-coupled Module **Item Description**

Pilot Production Phase ² ECCN: EAR99 ³

	Units	Lower Spec	Typical	Upper Spec	
Optical					
CW Output Power	W		80		
Centroid Wavelength	nm	977	980	983	
Spectral Width (FWHM)	nm			4.5	
Slope Efficiency	W/A		8.7		
Beam Divergence from Fiber (90% PE)	NA		0.17	0.20	
Fiber Core / Clad Diameter	μm		200 / 220		
Fiber NA / Index Type	-	0.22 / PowerCore™			
Electrical					
Electrical-to-Optical Efficiency	%	47	52		
Threshold Current	А		0.5		
Operating Current	А		9.7	10.9	
Operating Voltage	V		15.9	17.6	
Series Resistance	Ω		0.3		
Mechanical					
Mass ⁷	g		120		
Fiber Length	m	1.9	2.0	2.1	
Fiber Bend Radius (Active / Storage)	mm		30 / 25		
Fiber Jacketing	-	Stainless Steel Squarelock			
Fiber Termination	-	SMA			
Thermal					
Thermal Resistance ⁴	°C / W		0.37		
Waste Heat	W		74		
Operating Housing Temperature ⁶	°C		+25		
Wavelength Temperature Coefficient ⁵	nm / °C		0.35		

Outline Drawing





RoHS



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 21CFR1040.101 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.



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. Additiony, nLIGHT offers a limited warranty to ensure customer satisfaction. For complete details, please contact an nLIGHT sales

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