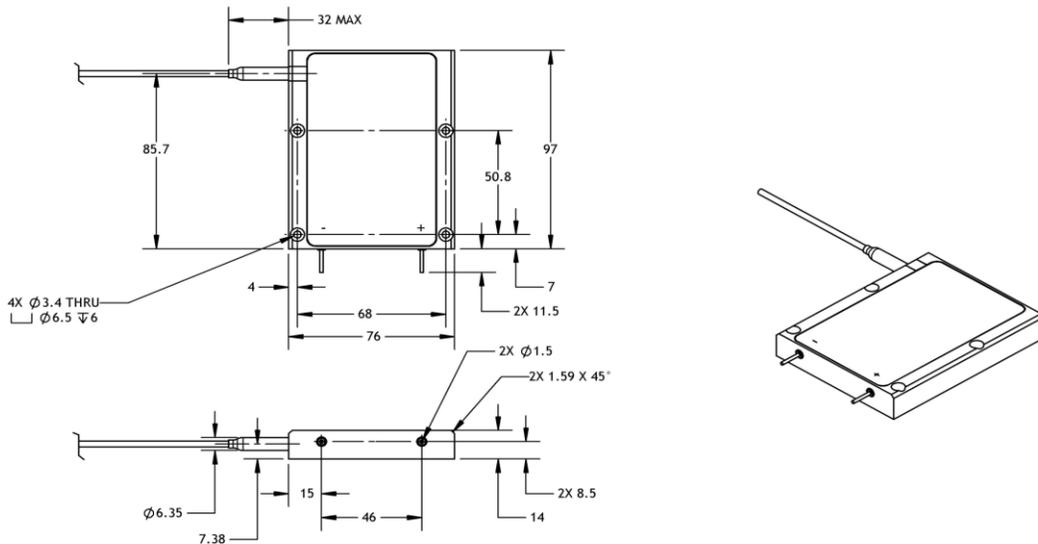


Item Number 1039990
Item Description e18-12-105-0976-3-105-0.22-SI-FPT-2.0-HT
Model e18.1050976105

Design Validation (Beta)⁴
EAR99⁵

	Units	Lower Spec	Typical	Upper Spec
Optical				
CW Output Power (with fresnel loss) ⁶	W	95	105	
CW Output Power (without fresnel loss)	W		109	
Centroid Wavelength	nm	973.0	976.0	979.0
Spectral Width (FWHM)	nm		4.7	7.0
Power within 0.14 NA	%	90		
Fiber Core / Clad Diameter	µm		105 / 125	
Fiber NA / Index Type	-		0.22 NA / Step Index	
Electrical				
Electrical-to-Optical Efficiency	%		43	
Threshold Current	A		0.4	
Operating Current	A		12.0	
Operating Voltage	V		20.4	
Mechanical				
Mass	g		450	
Fiber Length	m	1.5	2	
Active Fiber Bend Radius	mm	25		
Fiber Jacketing	-		900 um Hytrel Loose Tube Buffer	
Fiber Termination	-		FPT	
Thermal				
Thermal Resistance	°C / W		0.3	
Waste Heat	W		140	
Operating (Housing) Temperature ^{2,3}	°C	+20	+25	+35
Wavelength Temperature Coefficient	nm / °C		0.35	
Wavelength Current Coefficient	nm / A		1.2	

Outline Drawing (Package Dimension 97 x 76 x 14 mm)



Notes

- ¹ Production specification shown are for beginning of life performance, end of life operating current (Iop) is 120% beginning of life Iop
- ² A non-condensing environment is required for operation and storage. Storage conditions are from -20 to +70 °C with relative humidity between 5 to 85 %
- ³ Operating temperature defined by the package housing
- ⁴ Current phase within the nLIGHT's NPI (New Production Introduction) Process
- ⁵ Export Control Classification Number (ECCN) as defined by the Export Administration Regulations (EAR)
- ⁶ Reported power is with an uncoated distal fiber end, therefore will be ~ 3.5 % higher if spliced

IEC Regulation
 This laser does NOT comply with IEC 60825-1 or 21 CFR 1040 for complete laser products and is solely intended to be integrated in a certified 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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