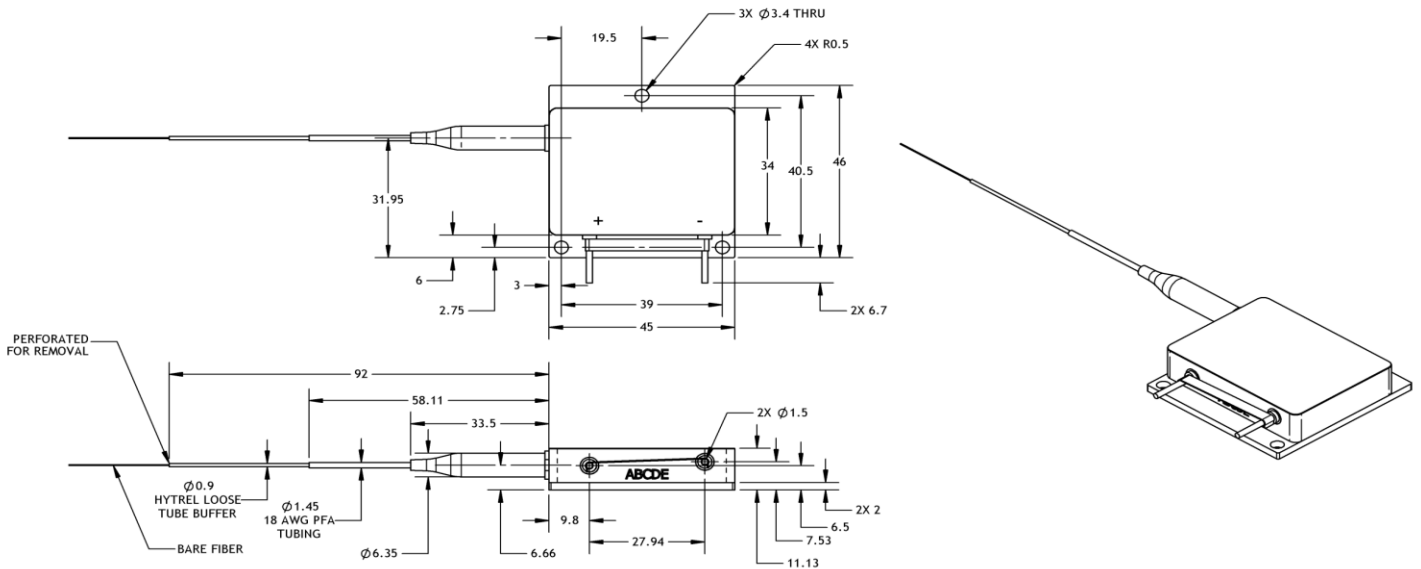


Item Number 1038929
 Item Description n6-055-0976-3-105-0.22-SI-FPT-1.5-HT-ST
 Model n6.0550976105

Design Validation (Beta)⁴
 EAR99⁵

	Units	Lower Spec	Typical	Upper Spec
Optical				
CW Output Power	W		55	
Centroid Wavelength	nm	973	976	979
Spectral Width (FWHM)	nm		5.0	7.0
Slope Efficiency	W / A		5.3	
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	%	42	46	
Threshold Current	A		0.4	
Operating Current	A			12.0
Operating Voltage	V		10.2	10.6
Mechanical				
Mass	g		To be verified	
Fiber Length	m	1.0	1.5	
Active Fiber Bend Radius	mm	35		
Fiber Jacketing	-		900 µm Hytrel Loose Tube Buffer	
Fiber Termination	-		None	
Thermal				
Thermal Resistance	°C / W		0.6	
Waste Heat	W		67	
Operating Temperature ^{2,3}	°C	+20	+25	+35
Wavelength Temperature Coefficient	nm / °C		0.35	
Wavelength Current Coefficient	nm / A		1.2	

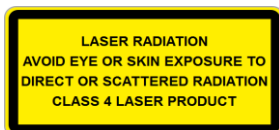
Outline Drawing



Notes

- ¹ Production specification shown are for beginning of life performance, end of life operating current is 120% beginning of life top
- 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 define by the package housing
- ⁴ Current phase within the nLIGHT's NPI (New Production Introduction) Process
- ⁵ Export control classification number as defined by Export Administration Regulations (EAR)

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 change certain 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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