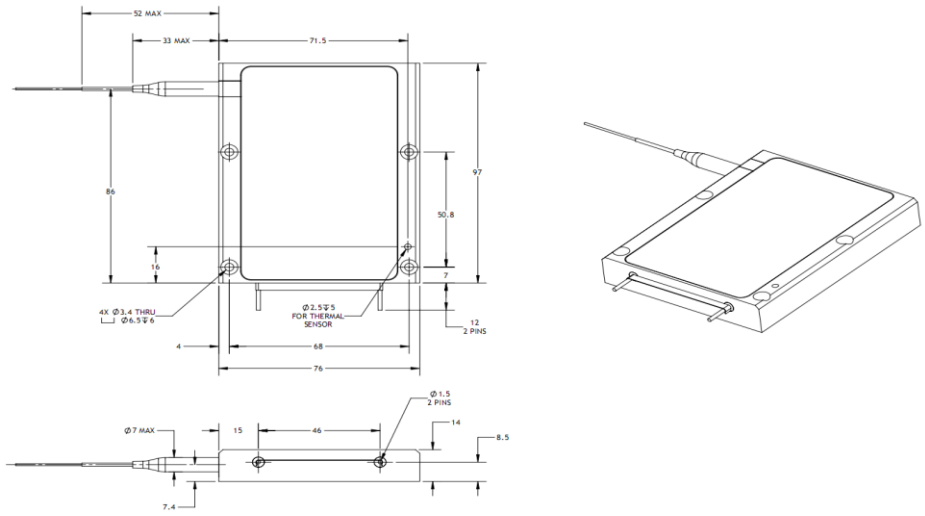
element®

PRODUCT SPECIFICATIONS[1]

Item Description e18-18-220-0976-7-105-0.22-SI-FPT-2.0-HT **ECCN: 6A005.d.1.b.1** [4]
Model e18.2200976105

	Units	Lower Spec	Typical	Upper Spec
Optical				
CW Output Power (in fiber)	W		220	
CW Output Power (as measured)	W	191	212	
Wavelength Centroid	nm	969.0	976.0	983.0
Spectral Width (FWHM)	nm			7.0
NA within 95% Power Enclosure	-		0.19	
Fiber Core / Clad Diameter	µm		105 / 125	
Fiber NA / Index Type	-		0.22 NA / Step Index	
Back Reflection Isolation 1030 - 1200nm	dB	15		
Electrical				
Electrical-to-Optical Efficiency	%		52	
Threshold Current	A		0.6	
Operating Current	A		15.0	15.0
Operating Voltage	V		28.4	29.0
Mechanical				
Mass	g		510	
Fiber Length	m	1.5	2.0	
Active Fiber Bend Radius	mm	25		
Fiber Jacketing	-		900 um Hytrel Loose Tube Buffer	
Fiber Termination	-		FPT	
Thermal				
Waste Heat	W		206	
Operating (Housing) Temperature [2,3]	°C		+30	
Wavelength Temperature Coefficient	nm / °C		0.35	
Wavelength Current Coefficient	nm / A		0.9	

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 110% 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 Export Control Classification Number (ECCN) as defined by the Export Administration Regulations (EAR).

RoHS compliant

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.

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