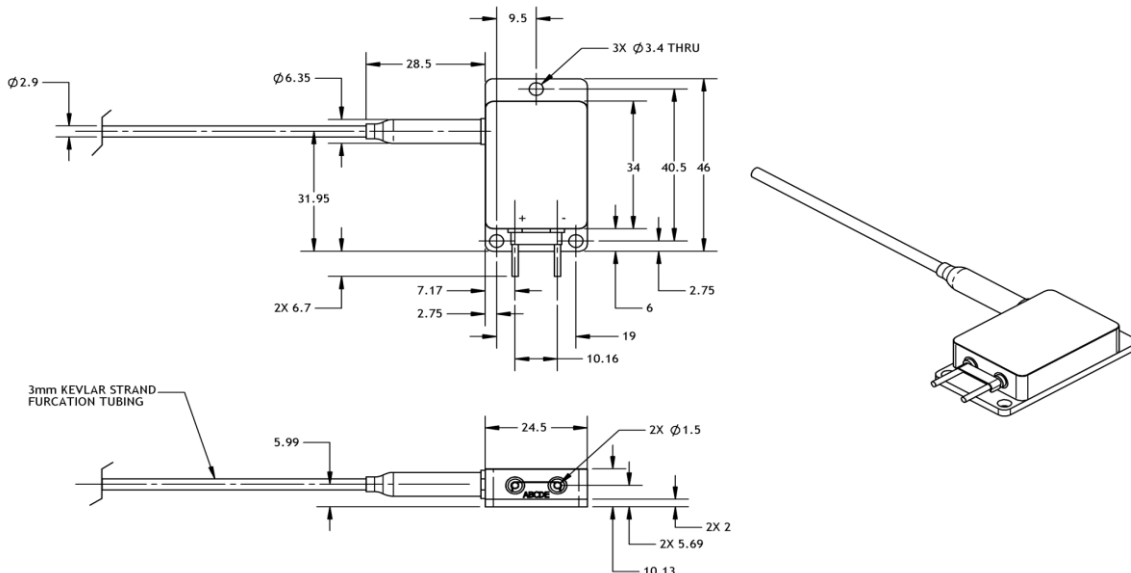


Item Number 1018711  
 Item Description n3-025-0808-3-400-0.22-SI-SMA-1.5-KL-ST  
 Model n3.0250808400

Design Validation (Beta)<sup>4</sup>  
 EAR99<sup>5</sup>

	Units	Lower Spec	Typical	Upper Spec
<b>Optical</b>				
CW Output Power	W		25	
Centroid Wavelength	nm	805	808	811
Spectral Width (FWHM)	nm		2.0	4.0
Slope Efficiency	W / A		3.0	
Power within 0.17 NA	%	90		
Fiber Core / Clad Diameter	µm		400 / 480	
Fiber NA / Index Type	-		0.22 NA / Step Index	
<b>Electrical</b>				
Electrical-to-Optical Efficiency	%	46	50	
Threshold Current	A		1.3	
Operating Current	A		9.2	10.0
Operating Voltage	V		5.2	5.6
<b>Mechanical</b>				
Mass	g		To be verified	
Fiber Length	m	1.0	1.5	
Active Fiber Bend Radius	mm	100		
Fiber Jacketing	-		3 mm Kevlar Strand Furcation Tubing	
Fiber Termination	-		SMA	
<b>Thermal</b>				
Thermal Resistance	°C / W		1.1	
Waste Heat	W		23	
Operating Temperature <sup>2,3</sup>	°C	+20	+25	+35
Wavelength Temperature Coefficient	nm / °C		0.28	
Wavelength Current Coefficient	nm / A		0.7	

**Outline Drawing**



**Notes**

- <sup>1</sup> Production specification shown are for beginning of life performance, end of life operating current is 120% beginning of life top
- <sup>2</sup> 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 %
- <sup>3</sup> Operating temperature define by the package housing
- <sup>4</sup> Current phase within the nLIGHT's NPI (New Production Introduction) Process
- <sup>5</sup> 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.



nLight Corporation  
 5408 NE 88th Street, Bldg E  
 Vancouver, Washington 98665  
 United States of America  
 Phone: 866.202.4488  
 360.566.4460  
 Fax: 360.546.1960  
 e-mail: sales@nlight.net  
 web: www.nlight.net