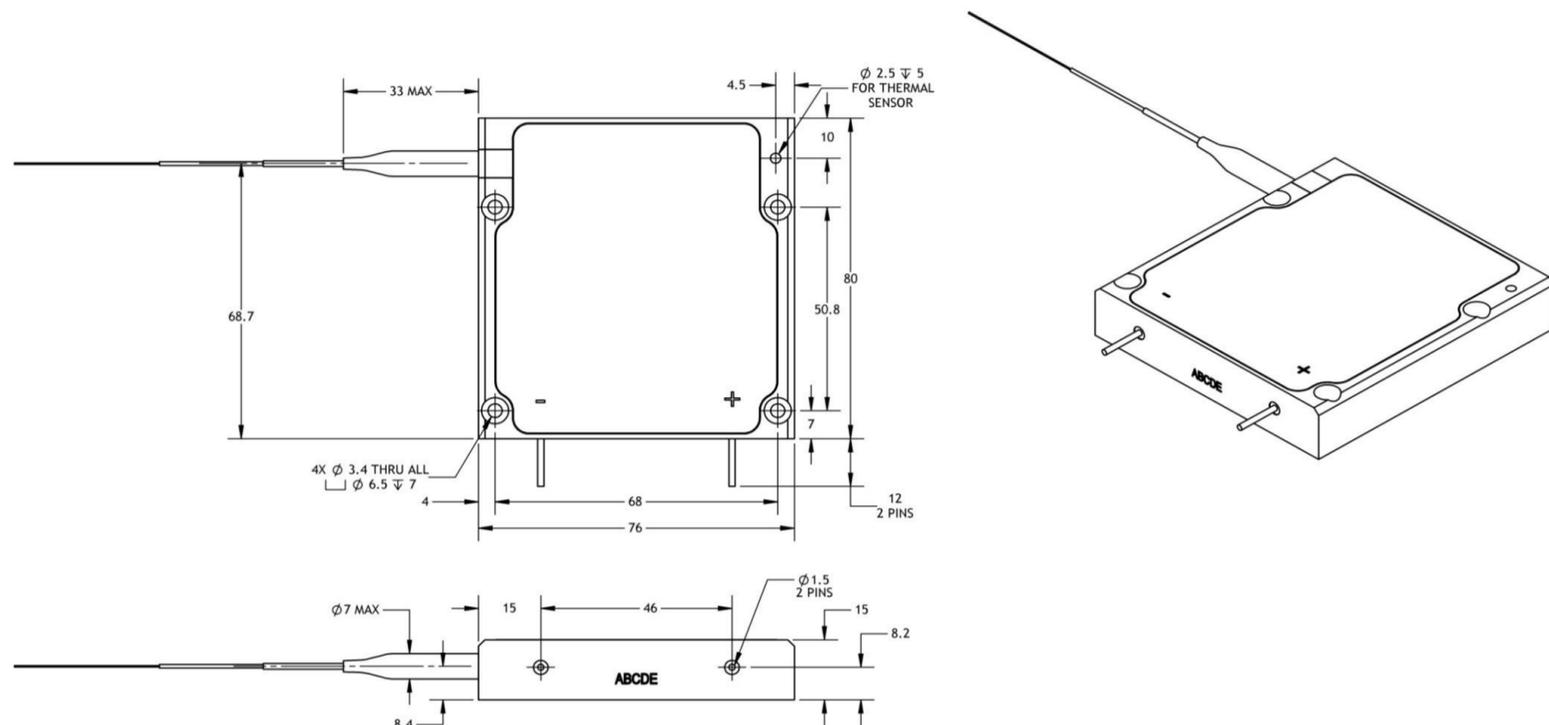


Item Description Model e12-12-155-0915-10-105-0.22-SI-FPT-2.0-HT  
e12.1550915105

ECCN: 6A005.d.1.b.1<sup>4</sup>

|  | Units   | Lower Spec | Typical                        | Upper Spec |
|--|---------|------------|--------------------------------|------------|
| <b>Optical</b>                                 |         |            |                                |            |
| CW Output Power (in fiber)                     | W       |            | 155                            |            |
| CW Output Power (as measured)                  | W       | 134        | 150                            |            |
| Wavelength Centroid                            | nm      | 905.0      | 915.0                          | 925.0      |
| Spectral Width (FWHM)                          | nm      |            |                                | 7.0        |
| NA within 95% Power Enclosure                  | -       |            | 0.16                           |            |
| Fiber Core / Clad Diameter                     | µm      |            | 105 / 125                      |            |
| Fiber NA / Index Type                          | -       |            | 0.22 NA / Step Index           |            |
| Back Reflection Isolation 1060 - 1200nm        | dB      | 15         |                                |            |
| <b>Electrical</b>                              |         |            |                                |            |
| Electrical-to-Optical Efficiency               | %       |            | 45                             |            |
| Threshold Current                              | A       |            | 0.7                            |            |
| Operating Current                              | A       |            | 16.0                           | 16.0       |
| Operating Voltage                              | V       |            | 21.3                           | 22.4       |
| <b>Mechanical</b>                              |         |            |                                |            |
| Mass   | g       |            | 440                            |            |
| Fiber Length                                   | m       | 1.5        | 2.0                            |            |
| Active Fiber Bend Radius                       | mm      | 25         |                                |            |
| Fiber Jacketing                                | -       |            | 900 µm Hytel Loose Tube Buffer |            |
| Fiber Termination                              | -       |            | FPT                            |            |
| <b>Thermal</b>                                 |         |            |                                |            |
| Waste Heat                                     | W       |            | 186                            |            |
| Operating (Housing) Temperature <sup>2,3</sup> | °C      |            | +30                            |            |
| Wavelength Temperature Coefficient             | nm / °C |            | 0.32                           |            |
| Wavelength Current Coefficient                 | nm / A  |            | 0.9                            |            |

**Outline Drawing (Package Dimension 80 x 76 x 15 mm)**



**Notes**

- <sup>1</sup> Production specification shown are for beginning of life performance. End of life operating current (Iop) is 110% beginning of life Iop.
- <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 defined by the package housing.
- <sup>4</sup> Export Control Classification Number (ECCN) as defined by the Export Administration Regulations (EAR).



nLight Corporation  
5408 NE 88th Street, Bldg E  
Vancouver, Washington  
98665  
United States of America  
Phone: 866.202.4488  
360.566.4460

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.



**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.