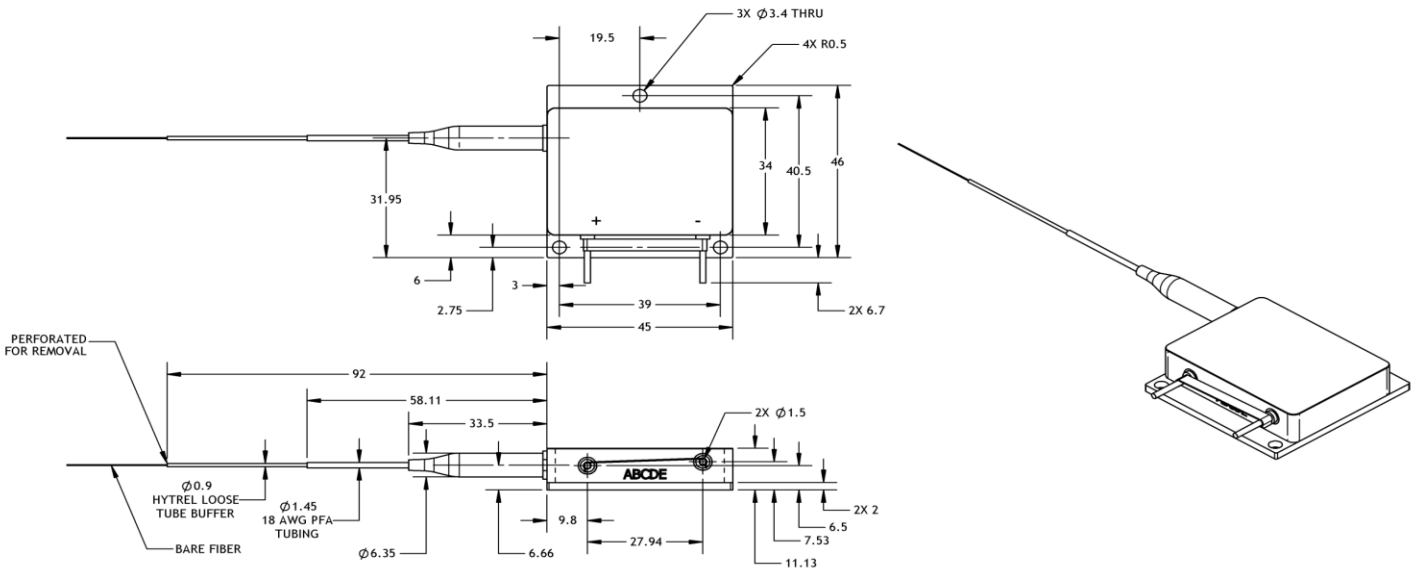


Item Number 1038928
 Item Description n6-058-0915-5-105-0.22-SI-FPT-1.5-HT-ST
 Model n6.0580915105

Design Validation (Beta)⁴
 EAR99⁵

| | Units | Lower Spec | Typical | Upper Spec |
|--------------------------------------|---------|------------|---------------------------------|------------|
| Optical | | | | |
| CW Output Power | W | | 58 | |
| Centroid Wavelength | nm | 910 | 915 | 920 |
| Spectral Width (FWHM) | nm | | 4.5 | 7.0 |
| Slope Efficiency | W / A | | 5.6 | |
| 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 | 47 | |
| Threshold Current | A | | 0.4 | |
| Operating Current | A | | | 12.0 |
| Operating Voltage | V | | 10.6 | 11.0 |
| 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 | | 69 | |
| Operating Temperature ^{2,3} | °C | +20 | +25 | +35 |
| Wavelength Temperature Coefficient | nm / °C | | 0.32 | |
| Wavelength Current Coefficient | nm / A | | 1.1 | |

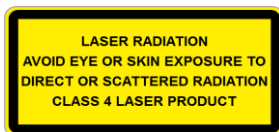
Outline Drawing



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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