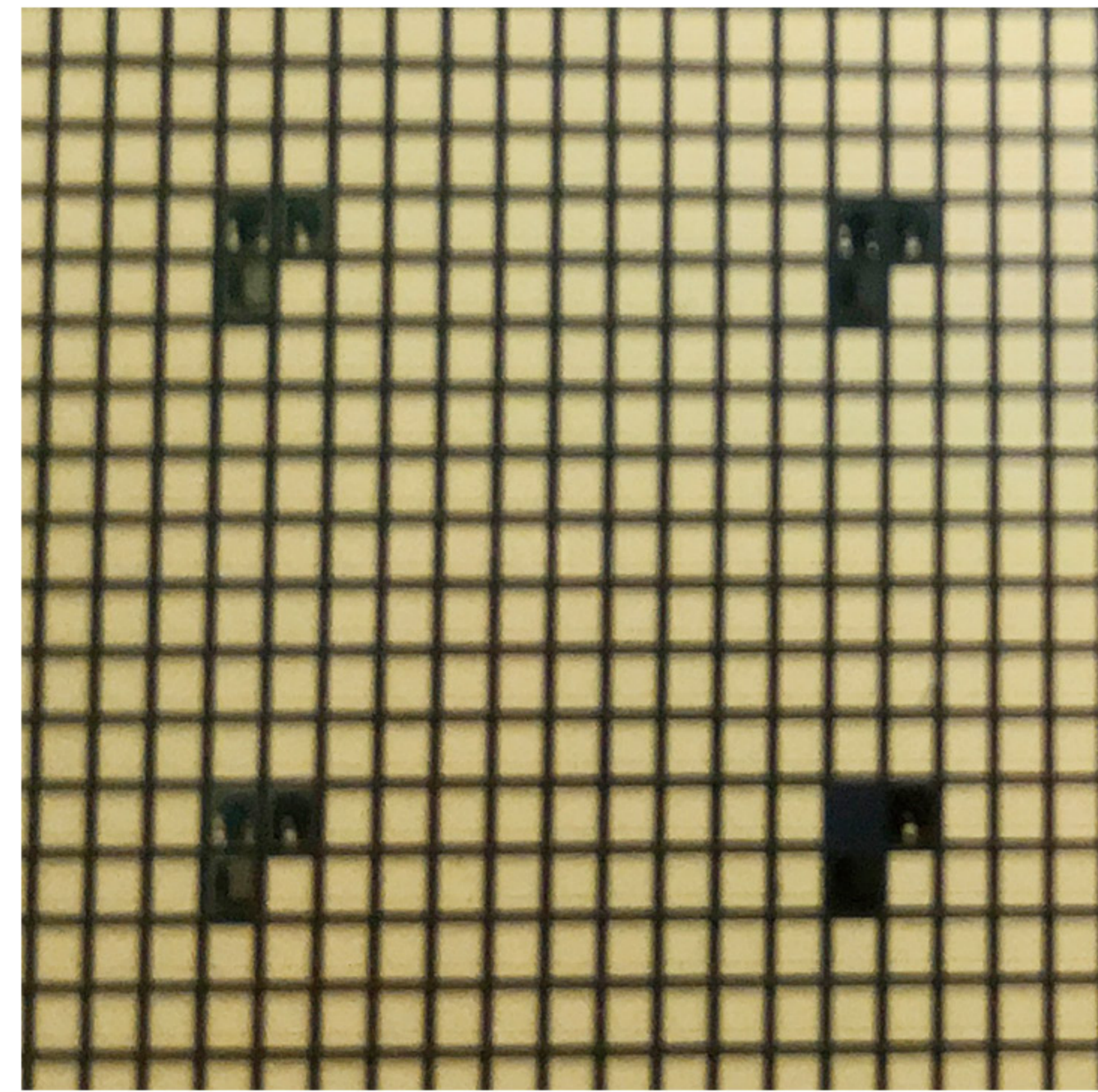


Laser Chip VCSEL-TOF

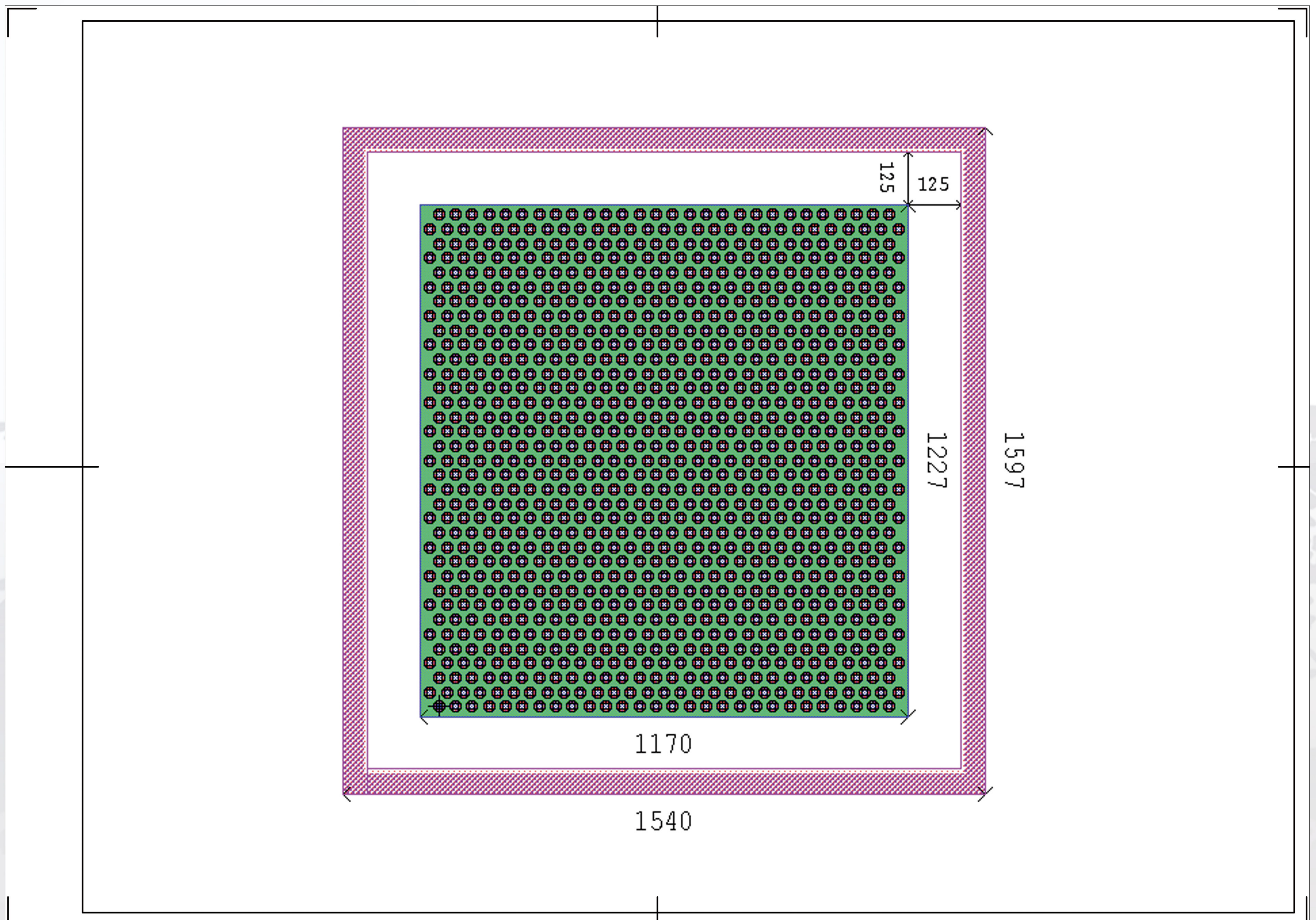


Application

- 3D Sensing
- Biomedical

Features

- High Stability
- Long Lifetime
- High Efficiency
- Customizable



| TOF Serial | | Item Number ¹ EB-VCSEL-TOF-5-940 | | |
|--|-------|---|-------|-----|
| Parameter | Unit | Min | Type | Max |
| Optical² | | | | |
| Center Wavelength@Iop ⁶ | nm | 930 | 940 | 950 |
| Spectral width (half width) | nm | | 1 | |
| Wavelength temperature coefficient | nm/°C | | 0.07 | |
| Light aperture ⁶ | μm | 9 | 10 | 11 |
| Minimum spacing of arrays ⁶ | μm | | 40 | |
| Number of light points | | | 997 | |
| Output Power ⁵⁶ | mW | | 5000 | |
| Operating current | mA | | 6300 | |
| Power consumption | mW | | 12500 | |
| Operating Voltage | V | | 2 | |
| Operating efficiency | % | 35 | 40 | |
| Threshold current | mA | | 1000 | |
| Divergence angle ⁴ | ° | 23 | 25 | 27 |
| Geometric size | | | | |
| Luminous zone length | μm | | 1227 | |
| Light-emitting area width | μm | | 1170 | |
| Chip length | μm | | 1597 | |
| Chip width | μm | | 1540 | |
| Chip thickness | μm | 90 | 100 | 110 |
| Notes | | | | |
| 1. Explanation of Item Number: EB (Everbright In Short) -VCSEL (Vertical Cavity Surface Emitting Laser in short) -TOF (Suitable for flight time scenarios) -5 (QCW Output Power is 5W) -940 (Center Wavelength is 940nm) | | | | |
| 2. Above Data Test at 25°C, Unless otherwise stated. | | | | |
| 3.Storage Temperature is -40°C-120°C, Operating Temperature is 0°C-70°C | | | | |
| 4.Full width@ 1/e ² | | | | |
| 5.Exceeding the normal power range will shorten the service life | | | | |
| 6..Customers can customize wavelength, power, aperture, spacing, etc. | | | | |
| Version: XP09-1811D-R01 | | | | |



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