

## VCSEL Based CW Seed Laser at 1064nm

### Key Features

- VCSEL Technology
- Output power 100 mW
- Single Longitudinal and Transverse mode
- Very low sensitivity to reflected Light- stable with 100% Light back into it
- Center wavelength range 1030 - 1070 nm
- Wavelength stability < 0.1 nm
- Wavelength accuracy <  $\pm 0.1$  nm
- Narrow line width ~ 200kHz
- PM-fiber coupled



Picture of the seed laser.  
Package size- 89 x 38 x 15 mm

### Applications

- Fiber Laser
- DPSS Lasers
- Sensing
- Coherent Communication
- Test & Measurement

## Product Specifications

(Temperature: 25°C)

Parameter	Value
Wavelength range (nm)	1030 - 1070
Wavelength stability (nm)	< 0.1
Wavelength accuracy (nm)	< ± 0.1
Line width <sup>1</sup> (kHz)	50
Side mode suppression ratio (SMSR)	> 30dB
Output power (mW)	> 100
Power stability (%)	± 0.5
Polarization	linear <sup>2</sup>
Polarization ER (dB)	> 20
Stability with reflected light <sup>3</sup> (%)	100
Laser input power (W)	< 6
TEC current (A)	< 2.0
TEC voltage (V)	< 15
Operating case temperature (°C)	-20 - + 70
Thermister value (kΩ)	10.0
Fiber pigtail	PMF <sup>4</sup> , 1-meter long
Fiber termination	FC/APC
Package dimensions (mm)	89 x 38 x 15
Operating temperature (°C)	10 - 30
Storage temperature (°C)	0 - 70

### Notes

1. Line width can be increased to 30GHz on request
2. Laser polarization orientation is aligned to the slow axis of the optical fiber to within ±3°
3. The laser remains stable with 100% light reflected back into it
4. Optical fiber is Corning PANDA PM 980, or similar, with 900-micron jacket or 250-micron coating



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