

Low DOP SLED

Broadband Light sources for FBGL sensing



Description

Low DOP SLED

FBG sensing detects external perturbation induced changes in the embedded FBG grating in the fiber, by measuring the grating reflected wavelength.

When using a polarized light, the measured TE and TM wavelengths may be slightly different and may impact applications where very high precision is needed.

For such applications, the interrogating light source with a low degree of polarization TE = TM will lead to higher accuracy readings.



Features & Benefits

Low DOP SLED

- No additional optical components needed
- Ability to deliver higher resolution/accuracy
- Lower system cost since SLED BTF can be driven directly to deliver low DOP



Product Specifications

1550 nm

- Centre wavelength of 1550nm
- Bandwidth FWHM > 50nm
- Power @ 300mA > 1mW
- Spectral Ripple < 0.2dB
- Polarization Extinction Ration < 1.6



Product Specifications

1310 nm

- Centre wavelength of 1310nm
- Bandwidth FWHM > 35nm
- Power @ 400mA > 10mW
- Spectral Ripple < 0.2dB
- Polarization Extinction Ration < 1.2

Why DenseLight?



Established Manufacturing facility since 2000.



Integrated Light Module (driver + light source) production lines in Singapore for assembly of ASE & Wind Lidar Seed Lasers.



Wafer Fabrication, assembly & testing plant in Singapore.



150+ customers in 26 countries.

Get in Touch



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