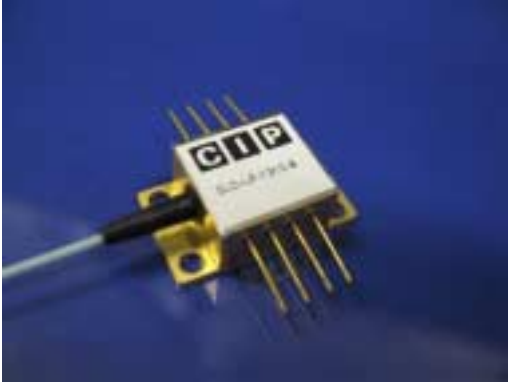


## SLD-LP-OEC-1310-8

### 1.31 $\mu$ m Superluminescent Diode (SLD)



#### Features

- 1.31 $\mu$ m operation
- Low ASE ripple
- Broad bandwidth (60nm)
- InP Buried Heterostructure design
- TEC cooled
- 8 pin Industry standard package
- PM Fibre

#### Application Examples

- Fibre optic gyroscopes
- Coherence tomography
- Optical test instruments
- Biomedical imaging
- Fibre optic communications
- Fibre optic sensors

#### Description

The Superluminescent Diode (SLD) is a high performance wide spectrum low ripple 1.31 $\mu$ m semiconductor based light source.

Its broad bandwidth and high power emission make it suitable for uses in a range of applications (see above).

It utilises CIP's proprietary InP buried heterostructure design and is available in an 8-pin butterfly package with a thermistor, thermo-electric cooler and PM fibre pigtailed.

#### Optical and electrical specifications

All measurements are at chip temperature 20°C unless stated otherwise.

Item	Test condition	Min.	Typ.	Max.	Unit
Output Power	Fibre coupled	0.7	1.0		mW
Centre Wavelength	I = 100mA	1280		1320	nm
Emission Bandwidth	-3dB point, I = 100mA	40		60	nm
Peak ASE Ripple	I = 100mA			0.2	dB
Bias Current	To achieve rated power		100	150	mA

