

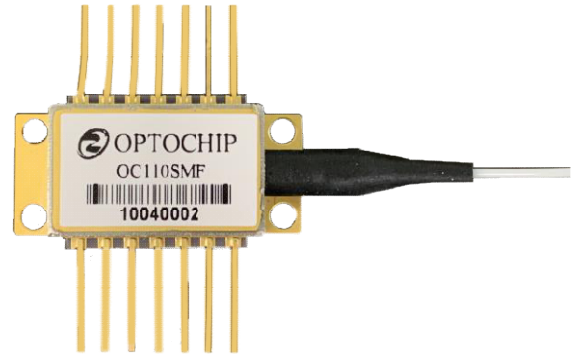


1310nm Superluminescence Diode Module

Model: OC6XX Series

Features

- 14 PIN Butterfly Package
- Optical output power 1mW
- Low polarisation dependence 0.5dB
- Low ripple on ASE power
- Broad optical bandwidth
- Qualified as per intent of Telcordia GR-468
- RoHS



Description

Optochip's OC6XX Series is The Superluminescence Diode (SLD) Module. It is a high performance, low polarization, wide spectrum, low ripple 1.31um semiconductor based light source. It's broad bandwidth and high power emission make it suitable for use in a range of applications.

Applications

- Fiber Optic Gyroscopes
- Fiber Optic Communications
- Biomedical Imaging Device
- Optical Coherence Topography
- Optical Test Instrument



Absolute Maximum Ratings

Stresses in excess of the absolute maximum ratings can cause permanent damage to the device.

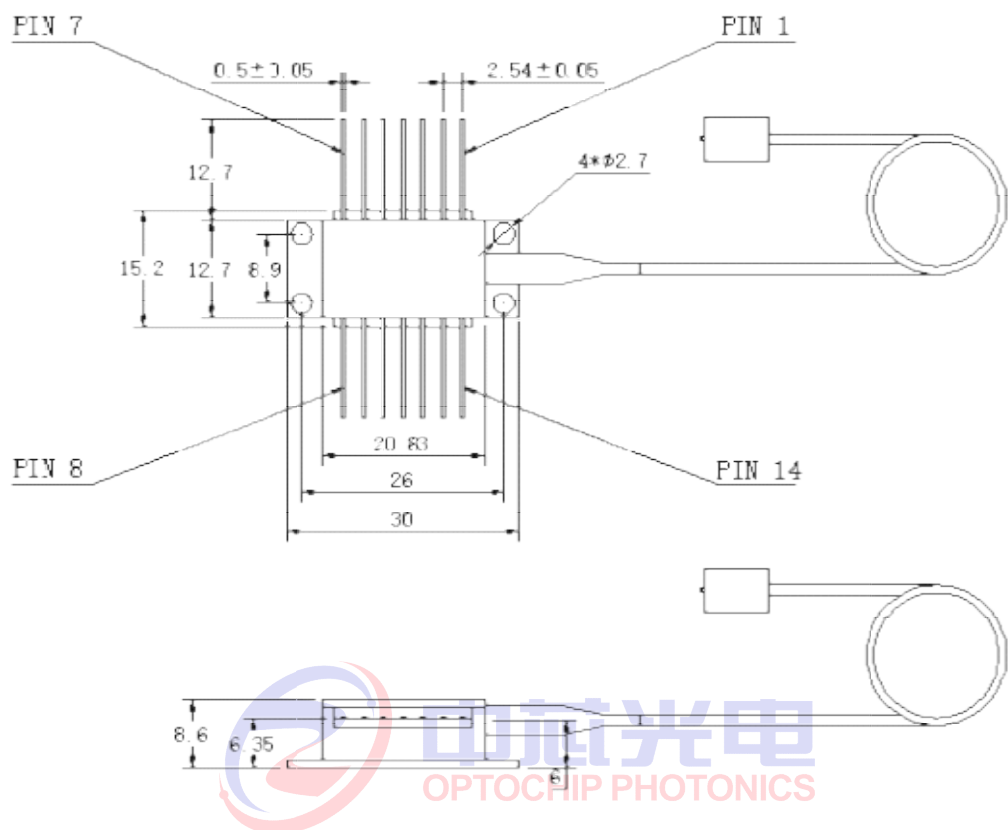
Parameter	Symbol	Min	Typ	Max	Unit
Storage Temperature	Ts	-55		85	° C
Relative Humidity	RH	5		85	%
Forward Voltage	V			2	V
Reverse Voltage	Vr			2	V
SLD Current	I			200	mA
MPD Rear Voltage	VMPDR			10	V
TEC Current	ITEC			1.2	A
TEC Voltage	VTEC			3.5	V
ESD(HBM)	ESD		500		V

Optical/Electrical Characteristics(Tc=25°C)

Parameter	Symbol	Min	Typ	Max	Unit
Operating Temperature	Tc	-40		70	° C
Operating Voltage	Vop			2	V
Operating Current	Iop		100	150	mA
Output Optical Power	Po		1	2	mW
Center Wavelength Range		1290	1310	1330	nm
Optical bandwidth(3dB)	BW	40	55		nm
Spectral power variation (ripple)	R		0.15	0.2	dB
Polarisation dependent output			0.5	1	dB
Thermistor Resistance	Rth	9.5	10	10.5	kOhm
Thermistor Sensitivity Index	β		3892		K



Outline Drawing



- 1). Unit:[mm]
2). Fiber length >1.2m

Connection

Pin Assignments			
Pin	Function	Pin	Function
1	TEC (+)	8	NC
2	Thermistor	9	NC
3	NC	10	SLD Anode (+)
4	NC	11	SLD Cathode (-)
5	Thermistor	12	NC
6	NC	13	Case Ground
7	NC	14	TEC (-)

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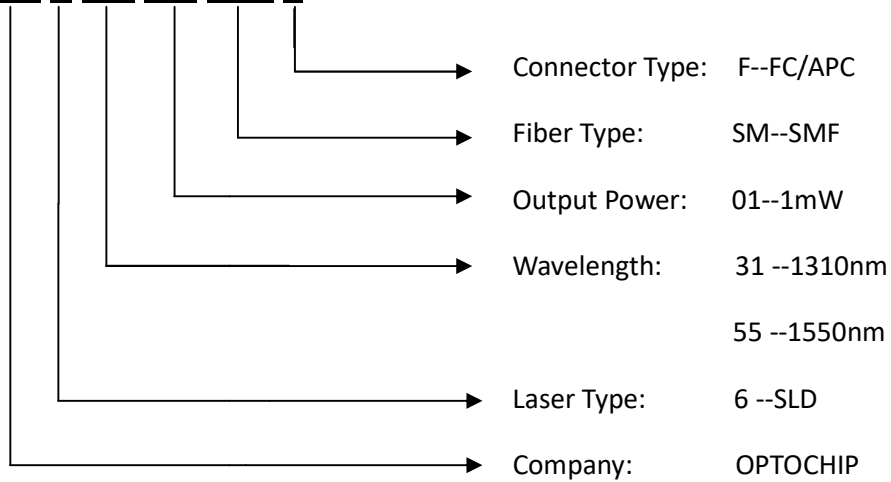
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OptoChip Optoelectronics Ltd

Ordering information

e.g.: O C 6 3 1 0 1 S M F



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