OSILaserDiode, Inc.

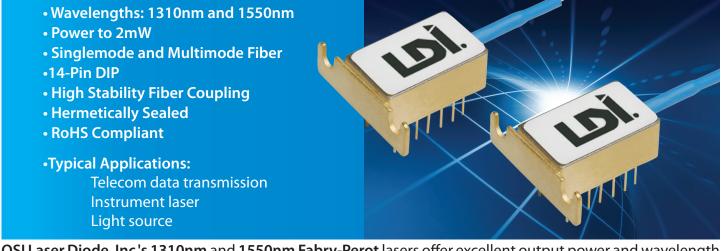
An OSI Systems Company

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www.laserdiode.com

Telecom / Datacom Laser Modules

ISO 9001:2008 Certified

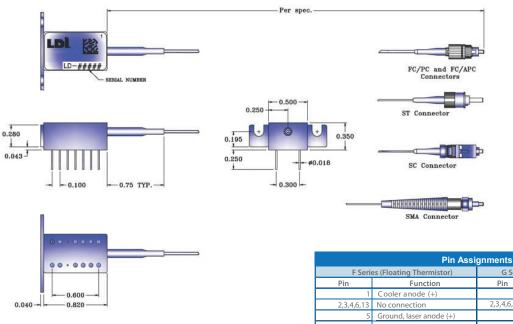


OSI Laser Diode, Inc.'s 1310nm and **1550nm Fabry-Perot** lasers offer excellent output power and wavelength stability. These modules are ideally used in short, intermediate and long distance telecommunication systems such as **SONET, SDH** and **Ethernet** or **Fiberchannel systems.** Devices are available with or without **TEC** and temperature sensing thermistor.

Specifications and Limits @25°C

Optical CharacteristicsPower OptionsWavelength RangeSpectral Width FWHM (typ)Drive characteristicsThreshold current (typ;max)Modulation current (typ;max)	Units uW nm nm mA mA	1310nm 500 / 1000 / 2000 1270-1330 2 6; 15	1550nm 500 / 1000 / 2000 1520-1580 1.3
Wavelength RangeSpectral Width FWHM (typ)Drive characteristicsThreshold current (typ;max)	nm nm mA	1270-1330 2	1520-1580 1.3
Spectral Width FWHM (typ) Drive characteristics Threshold current (typ;max)	nm mA	2	1.3
Drive characteristics Threshold current (typ;max)	mA		
Threshold current (typ;max)		6: 15	
		6:15	
Modulation current (typ;max)	mA	0,.0	10; 14
		15; 25	12; 16
Forward voltage maximum	V	2	1.4
Maximum optical rise/fall time	ns	0.5	0.5
Monitor Diode			
Photocurrent at P _{max} (min;max)	uA	50; 1200	50; 1200
Maximum dark current	nA	10	10
Maximum capacitance	pF	6	6
Maximum rise/fall time	ns	2	2
Maximum reverse voltage	V	10	10
Tracking error*	dB	±0.5	±0.5
Temperature Range			
Module operating temperature	°C	-20 to +70	-20 to +70
Storage temperature	°C	-40 to +85	-40 to +85
Thermoelectric Cooler**			
Maximum cooler capacity	°C	45	45
Current for maximum capacity	А	0.75	0.75
Maximum current	А	1.2	1.2
Voltage for maximum current	V	1.2	1.2
Thermistor**			
Resistance at $T = 25^{\circ}C$	ΚΩ	9.8-10.2	9.8-10.2
Temperature coefficient	%/°C	-4.4	-4.4

*Tracking error is the variation of the linear relationship between fiber-coupled power and monitor diode current over the specified operation temperature range **Cooled devices only



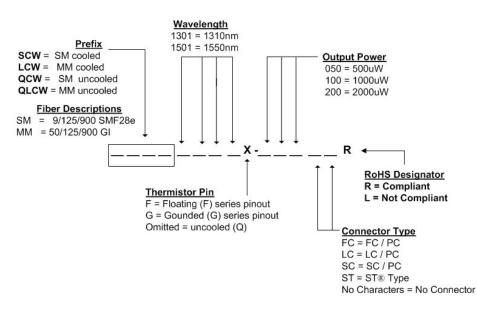
G Series (Ground Thermistor) Pin Function Cooler anode (+) No connection Ground, laser anode (+) Detector cathode (-) Detector cathode (-) 8 Detector anode (+) Detector anode (+) 9 Laser cathode (-) Laser cathode (-) 10 Ground Ground, thermistor 10 Thermistor Thermistor 14 Cooler cathode (-) Cooler cathode (-) 14

Dimensions: Inches (mm)

Detailed package drawings are available upon request Standard fiber lengths; 1m min. unconnectorized; 1m +/- 0.1m connectorized

Part Ordering Information

When ordering, refer to the numbering diagram below.



Products can be ordered directly from OSI Laser Diode, Inc. or its representatives. For a complete listing of representatives, visit our website at www.laserdiode.com

Personal Hazard and Handling Precautions:

Handle optical fiber with normal care, avoiding stretch, tension, twist, kink or bend abuse. **ESD** precautions apply. Normal aversion reactions will protect from radiation hazards to the eye associated with devices of this kind. **Class 1** lasers when operated at rated conditions

Notice:

OSI Laser Diode, Inc. reserves the right to make changes to the products or information contained herein without notice. No liability is assumed as a result of their use or application.

Warranty:

Please refer to your product purchase agreement for complete details or check with your OSI Laser Diode sales representative.