OSI LaserDiode, Inc.
An OSI Systems Company

OSI Laser Diode, Inc.
4 Olsen Avenue
Edison, NJ 08820 USA
Voice (732) 549-9001
Fax: (732) 906-1559
Internet: www.laserdiode.com
ISO 9001:2008 Certified

SCW 1632-350R & SCW 1631F-350R

1625 nm High Power Pulsed Laser Diode Module for OSA / OTDR Applications

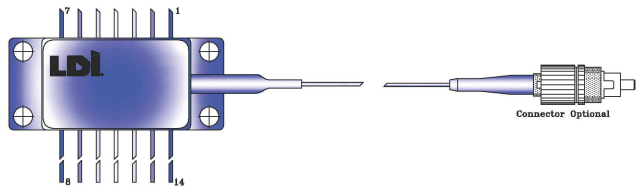
The SCW 1632-350R & SCW 1631F-350R laser diode modules are High Powered 1625 nm RWG F/P laser diodes packaged in 14 pin butterfly & DIL packages. The laser diodes are optically coupled to an SMF fiber pigtail and include a thermoelectric cooler and an electrically isolated temperature sensing thermistor. The SCW 1632-350R & SCW 1631F-350R laser diode modules are specifically designed for optical test equipment applications where high peak pulsed optical power is desired. The devices are RoHS compliant.

Characteristics (T_{amb} = 0° to 65° C; T_{ld} = 15° C):

Parameter	Symbol	Conditions	Min.	Typ.	Max	Units
Optical power (fiber)	P_o	P_w = 10 us; D/C = 1%	275	350		mW
Forward drive current	I_f	P_w = 10 us; D/C = 1%		2100	3000	mA
Threshold current	I_{th}	P_w = 10 us; D/C = 1%		70		mA
Forward voltage	V_f	P_w = 10 us; D/C = 1%		3	4	V
Center wavelength	λ	P_w = 10 us; D/C = 1%	1615	1625	1635	nm
Spectral width (RMS)	Δλ	P_w = 10 us; D/C = 1%		10	12	nm
Thermistor resistance	R	T_{ld} = 15° C.	15.44	15.67	15.90	KΩ
Thermistor B constant	B	B25/50	3910.9	3950.0	3989.9	K
Cooling capacity	ΔT	P_w = 10 us; D/C = 1%	60			°C
TEC Voltage @ 55° Δ T	V_{tec}	P_w = 10 us; D/C = 1%		1.3	1.6	V
TEC Current @ 55° Δ T	I_{tec}	P_w = 10 us; D/C = 1%		1200	1500	mA
Fiber Length	L	per outline	1			Meter
Operating temp. range	T_{op}	P_w = 10 us; D/C = 1%	0		65	°C
Storage temp. range	T_{stg}	Non operating	-40		85	°C

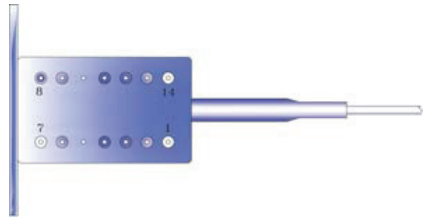
Detailed package drawing available upon request

Butterfly Package:



Pin	Function
1	TEC (+)
2	Thermistor
3,4	N/C
5	Thermistor
6,7,8,9	N/C
10	Laser Anode
11	Laser Cathode
12	N/C
13	Case Gnd
14	TEC (-)

14 Pin DIL Package:



Pin	Function
1	TEC (+)
2,3,4,6	N/C
7,8,13	N/C
5,10	Laser Anode/ Case Ground
9	Laser Cathode
11	Thermistor
12	Thermistor
14	TEC (-)

ESD precautions apply.
Normal aversion reactions will protect from radiation hazards to the eye associated with devices of this kind. IEC Class 3R when operated at rated conditions.

Warranty:
Please refer to your product purchase agreement for complete details or check with your LDI sales representative.

Notice:
OSI Laser Diode Incorporated 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.