

NEW!

SCW Series Instrument Laser FIBER BRAGG GRATING

PRELIMINARY Product Specification Sheet

OSI Laser Diode, Inc.'s high power SMF coupled laser modules with integrated Fiber Bragg Gratings are designed to meet the performance demands of the optical test equipment marketplace. The high peak optical power SCW series lasers are fully hermetic packaged. These packaged lasers include both TEC and temperature sensing thermistor for superior wavelength stability over a wide temperature range. This is a Class 1 RoHS compliant laser product.

SCW/FBG Series Specifications and Limits @ 25°C

Parameter	Symbol	Min.	Typ.	Max.	Units
PeakWavelength(25°C± 10°C)	λ		1625		nm
Spectral Width	λ		0.5		nm
Optical Power, Pulsed	P_o		30		mW
Forward Current	-		600		mA
Threshold Current	-		45		mA
Forward Voltage	-		2		V
TEC Cooling Capacity **	-		45		°C
TEC Voltage	-		1.2	1.6	V
TEC Current			600	800	mA
Operating Temperature	T_o	-30	-	+70	°C
Storage Temperature	T_s	-40	-	+85	°C

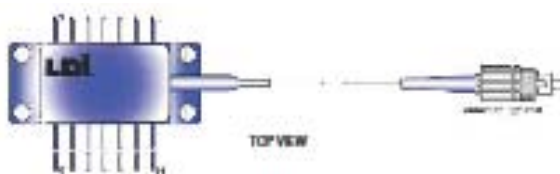
Characteristics:

With TEC -30°C to +70°C; $T_{id} = +25^\circ\text{C}$

Conditions: $P_w = 10\text{uS}$; $D/C = 1\%$

Fiber: SMF 28; typical fiber length 1 meter

14-Pin Butterfly Package and 14-Pin DIP Package F Series and G Series



14-Pin Butterfly Package



14-Pin DIP Package

F Series (Floating Thermistor)	
Pin	Function
1	cooler anode (+) *
2,3,4,6,7,8,13	no connection
5	laser anode (+), ground
9	laser cathode (-)
10	ground
11,12	thermistor *
14	cooler cathode (-) *

G Series (Ground Thermistor)	
Pin	Function
1	cooler anode (+) *
2,3,4,6,7,8,12,13	no connection
5	laser anode (+), ground
9	laser cathode (-)
10	ground, thermistor
11	thermistor *
14	cooler cathode (-) *

*Cooled Package Only. No connection for uncooled pkg.