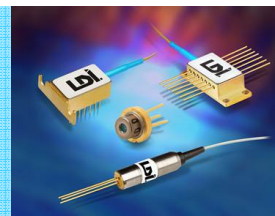


SCW 1430 Series

1490 nm High Power Pulsed Laser Diode Module for OSA / OTDR Applications



The SCW 1430 series laser diode modules are 1490nm Al RWG F/P laser diodes packaged in 14 pin DIL, butterfly or 3 pin TO56 packages. These SCW 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 ($T_{id} = 25^{\circ} \text{C}$):

Parameter	Symbol	Conditions	Min.	Typ.	Max	Units
Optical power (fiber)	P_o	$P_w = 10 \text{ us}; D/C = 1\%$	100			mW
Optical power (TO56)	P_o	$P_w = 10 \text{ us}; D/C = 1\%$	300			mW
Forward drive current	I_f	$P_w = 10 \text{ us}; D/C = 1\%$		500	1000	mA
Threshold current	I_{th}	$P_w = 10 \text{ us}; D/C = 1\%$		35		mA
Forward voltage	V_f	$P_w = 10 \text{ us}; D/C = 1\%$		2	4	V
Center wavelength	λ	$P_w = 10 \text{ us}; D/C = 1\%$	1470	1490	1510	nm
Spectral width (RMS)	$\Delta\lambda$	$P_w = 10 \text{ us}; D/C = 1\%$			10	nm
Thermistor resistance*	R	$T_{id} = 25^{\circ} \text{C}$	9.9	10.0	10.1	K Ω
Thermistor B constant*	B	B25/50	3910.9	3950.0	3989.9	K
Cooling capacity*	ΔT	$P_w = 10 \text{ us}; D/C = 1\%$	60			$^{\circ}\text{C}$
TEC Voltage @ $40^{\circ} \Delta T^*$	V_{tec}	$P_w = 10 \text{ us}; D/C = 1\%$		1.2	1.6	V
TEC Current @ $40^{\circ} \Delta T^*$	I_{tec}	$P_w = 10 \text{ us}; D/C = 1\%$		800	1500	mA
Operating temp. range	T_{op}	$P_w = 10 \text{ us}; D/C = 1\%$	-30		70	$^{\circ}\text{C}$
Storage temp. range	T_{stg}	Non operating	-40		85	$^{\circ}\text{C}$

* = TE Cooled Modules Only

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 not protect from radiation hazards to the eye associated with devices of this kind. IEC Class 3R.

Warranty:

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

Notice:

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.

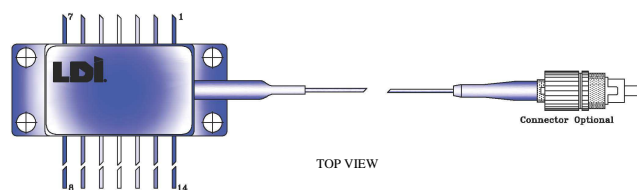
14-pin Butterfly Package and 14-pin DIP Package F Series and G Series

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 (-) *

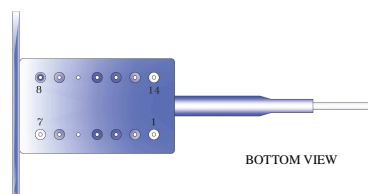
G Series (Ground Thermistor)	
Pin	Function
1	cooler anode (+) *
2,3,4,6,7,8,12,13	no connection
5	laser anode (+), ground
9	laser cathode (-)
10	ground, thermistor
11	thermistor *
14	cooler cathode (-) *

*Cooled Package Only. No connection for uncooled pkg.

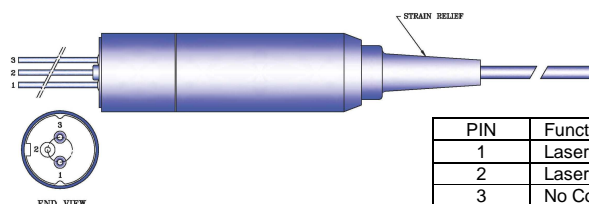
14-pin Butterfly Package



14-Pin DIP Package



Coaxial Package



PIN	Function
1	Laser cathode (-)
2	Laser anode (+)/ Ground
3	No Connection

TO56 Package



Detailed package drawings are available on LDI website.

Part Numbering Diagram

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

When ordering, refer to the information below.

