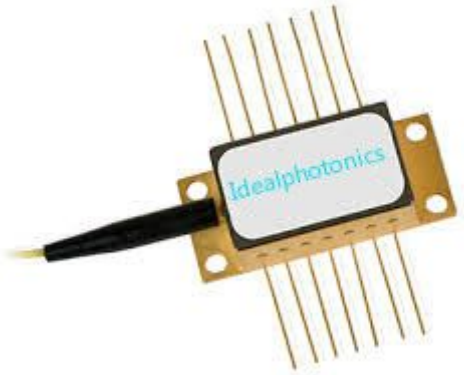
930nm medium-power wide-spectrum SLD



Feathure

Very wide, 70 nm FWHM optical spectrum
Short coherence length
Negligible residual Fabry-Perot modulation depth

Application

fiberoptic sensors
Bragg grating sensors
optical coherence tomography
optical measurements

Packages:

fiber coupled – Butterfly, DIL
free space – TOW

Additional & customized:

- PD monitors
- FC/APC terminated pigtails
- SM or PM pigtails (polarized or pseudo-depolarized output emission ex PM fiber)

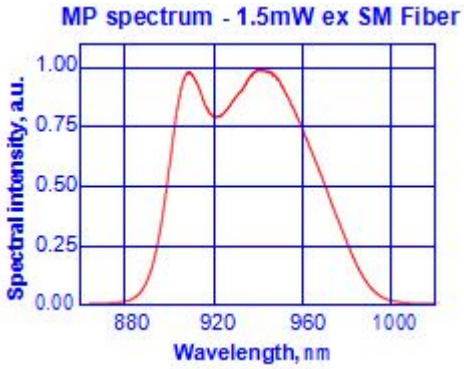
Specification

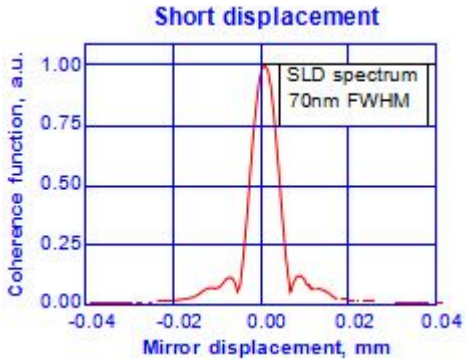
Paramete	Min	Typ	Max
Output power, SM fiber pigtail, emitter @ +25 °C, mW	1.0	1.5	-
Free space output power*, in a cone N.A.=0.71, emitter @ +25 °C, mW	3.5	5.0	-
Forward current**, mA	-	150	250

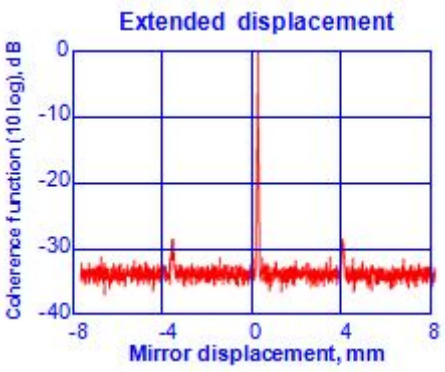
Forward voltage, V	-	2.0	2.5
Central wavelength, nm	910	935	950
Spectrum width, FWHM, nm	50	70	-
Residual spectral modulation depth, %	-	-	2.0
Secondary coherence subpeaks, dB (10 log)	-	-25	-20
Spectral Flatness***, dB	-	1.0	2.0
Slow / fast polarization ratio (PM "polarized" modules)****, dB	5	10	-
Operating temperature*****, °C	-55	-	+80
Cooler current, A	-	-	1.2
Cooler voltage, V	-	-	3.5

*TOW packaged SLDs;
**current is specially adjusted to get highest output power with equal intensity of spectral lobes; different for different modules;
***Spectral Flatness parameter describes spectral intensity dropout between spectral lobes;
****Pseudo-depolarized versions (light is launched into the fiber with its polarization oriented at 45° to the birefringent axes) are available upon request;
*****Butterfly packaged SLDs

PERFORMANCE EXAMPLES







Ordering Information:

SLD-47(a)-MP-(c)-(d)-(e),

where:(a) – 0 (free space) or 1 (fiber pigtailed), (c) – package type,

(d) – SM or PM (fiber coupled modules), (e) – PD (if PD monitor is required).

Example: SLD-471-MP-DIL-SM-PD.