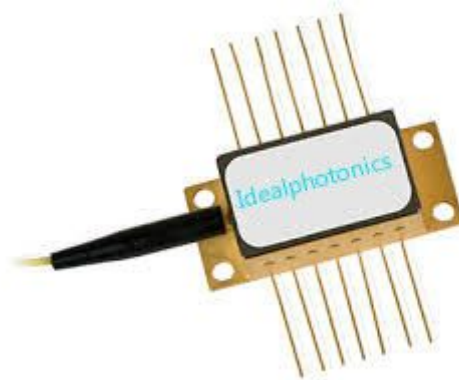


1050 nm high-power SLD modules



Feature

Very high output power, up to 30 mW ex SM fiber

Up to 75 mW free space output on request

Flat spectrum with small residual Fabry-Perot modulation depth

Application

optical sensing

optical coherence tomography

optical measurements

Packages:

fiber coupled – Butterfly, DIL

free space – TOW

Additional & customized:

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

Specification

Parameter	Category	Min	Typ.	Max
Output power, SLD-531-HP SM fiber	HP1	-	-	10.0
	HP2	-	-	20.0
	HP3*	-	-	30.0
Output power, Glass Window	HP1	-	-	20.0
	HP2	-	-	40.0
	HP3*	-	-	60.0
Forward current, mA	HP1	-	200	350
	HP2	-	250	400

	HP3*	-	350	400
Forward voltage, V	All	-	-	2.2
Peak wavelength, nm	All	1040	-	1060
Spectrum width, FWHM, nm	HP1	25	30	60
	HP2	30	35	60
	HP3	30	35	40
Residual spectral modulation depth,	All	-	2.0	5.0
Secondary coherence subpeaks (Reflectivity), dB (10 log)	All	-	25	-
Slow / fast polarization ratio (PM modules)***, dB	All	5.0	-	-
Operating temperature (case)****, °C	All	-55	-	+75
Cooler current, A	All	-	-	1.2
Cooler voltage, V	All	-	-	3.5

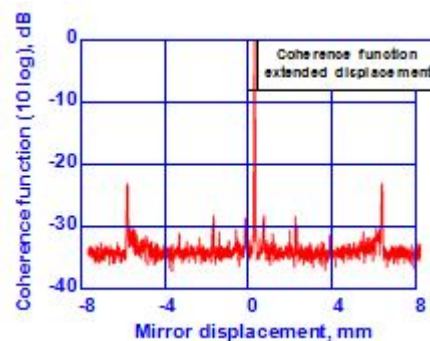
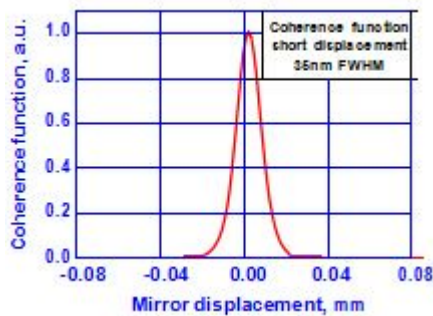
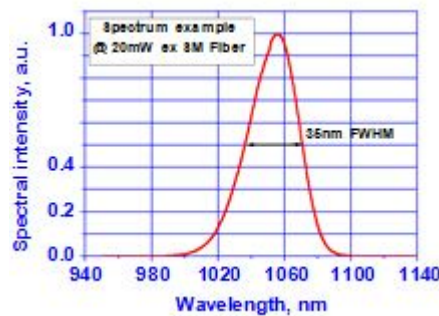
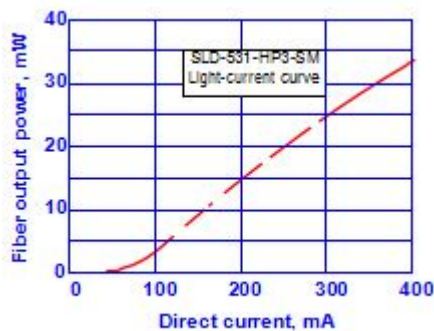
*SLD modules of HP3 power category are available in engineering quantity;

**TOW packaged SLDs;

***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-53(a)-(b)-(c)-(d)-(e),

where: (a) – 0 (free space) or 1 (fiber pigtailed),(b) – power category (HP1...HP3), (c) – package type,(d) – SM (isotropic) or PM (polarization maintain) fiber (pigtailed versions only), (e) – PD (if PD monitor is required).
Example: SLD-531-HP1-DBUT-SM-PD.

A maximum feedback of 10–3 is allowed to run HP SLDs safely at full power.
All specifications are subject to change without notice.A lot of customized solutions are available — contact us with your detailed requirements!