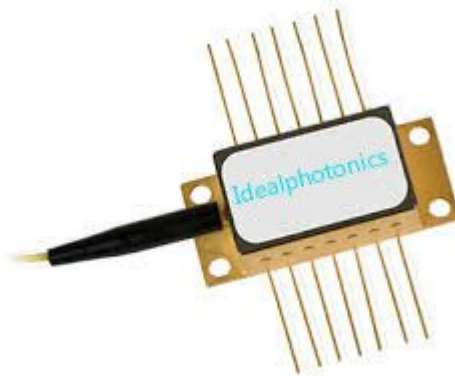


## 1480, 1530, 1550 nm High-Power SLDs



### Description

two power categories, up to 10 mW ex SM fiber  
wide spectrum with small Fabry-Perot modulation depth

### Feature

Low cost low power modules  
Flat spectrum with negligible residual Fabry-Perot modulation dept

### Application

testing WDM/DWDM components  
fiberoptic metrology  
fiberoptic gyros  
fiberoptic sensors  
optical coherence tomography  
optical measurements

### Packages:

DIL, BUT; others on request

### Additional & customized:

PM fiber pigtails (slow axis alignment; 45 degree orientation upon request)  
FC/APC terminated pigtails

### Specification

Paramete	Category	Min	Typ.	Max
Output power ex SM fiber, mW	HP1	4.0	5.0	-
	HP2	7.5	10.0	
Forward current, mA	HP1	-	-	400
	HP2			600
Forward voltage, V	All	-	1.9	2.5
Central wavelength, nm	All	1480, 1530, 1550		
Spectrum width, nm	All	30	45	-

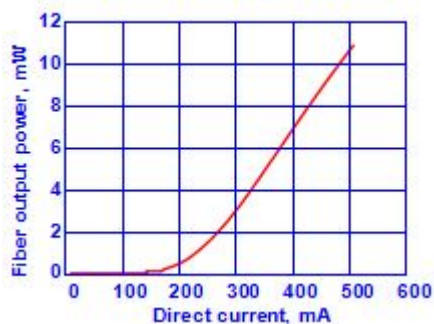
Residual spectral modulation depth, %	All	-	-	5.0
Secondary coherence subpeaks, dB (10 log)	All	-	-	-20
Slow / fast polarization ratio (PM modules)*, dB	All	5	10	-
Operating temperature (case) at full power, °C	HP1	-55	-	+70
	HP2			+60
Cooler current, A**	All	-	-	1.2
Cooler voltage, V**	All	-	-	3.5

\* Pseudo-depolarized version (light is launched into the fiber with its polarization oriented at 45° to the birefringent axes) is available upon request

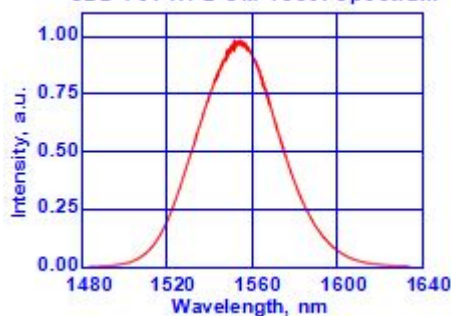
\*\* 2.5 A / 4 V TE cooler may be used to extend the operating temperature range

## PERFORMANCE EXAMPLES

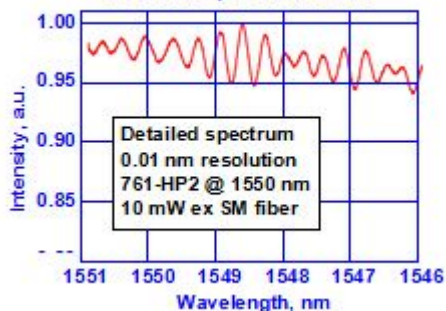
SLD-761-HP2-SM. Light-current curve



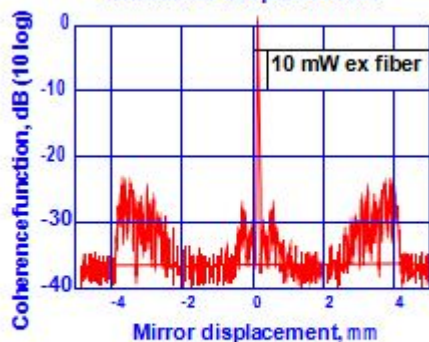
SLD-761-HP2-SM-1550. Spectrum



Detailed spectrum trace



Extended displacement



Mirror displacement = Optical path difference / 2

## Ordering Information :

SLD-761-(b)-(c)-(d)-(f),

where:

(b) – power category (HP1 or HP2), (c) – package type,

(d) – SM (isotropic) or PM (polarization maintaining), (f) – required wavelength (in nanometers).

Example: SLD-761-HP2-DBUT-SM-1550

A maximum feedback of  $-30$  dB ( $10^{-3}$ ) is allowed to run HP-series SLDs safely at full power.