SUPERLUM

Very High Power SLD modules at 850 nm S840.25.30

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Superluminescent Diodes are semiconductor emitters combining the high brightness of laser diodes with a broad spectrum of LEDs. They are light sources of choice for numerous applications based on low coherence measurements, spectroscopy, low speckle illumination, and others.

Superlum offers a wide range of SLD modules and SLD-based light sources. Please also check our SLD controllers and light source modules to ensure safe and stable SLD operation in your system.

pecifications (Nominal Emitter Stabilization Temper Parameter	rature +25 °	°С) ТҮР	MAX	\$1.0 3 1.0
\$840.25.30				Features
Output power, Pop. ex SM fiber, mW	30.0	_	_	
Forward current at Pop, mA	-	330	400	- 30 mW output power
Central wavelength at Pop, nm	830	840	850	
Spectrum width at P_{op} , FWHM, nm	25	28	_	- Butterfly packaged with
Residual spectral modulation depth [†] at P _{op} , %	-	-	5.0	cooler and thermistor
Secondary coherence subpeaks ⁺⁺ at P _{op} , dB (10 log)	-	-25	-20	
Slow / fast polarization ratio (PM modules) at Pop, dB	-	10	-	 SMF or PMF pigtailed
PD monitor current ⁺⁺⁺ at P _{op} ,mA	0.1	-	-	
Attention: all parameters are measured at optical feed	back not exc	ceeding 1	E-3	

SLD forward voltage at P _{op} , V	-	-	2.6
PD monitor bias voltage, V	-	-	5.0
Operating temperature at P _{op} , °C	-20	-	+65
Storage temperature at P _{op} , °C	-40	-	+85
Cooler current, A	-	-	2.5
Cooler current, V	-	-	3.2
Thermistor BETA, K	-	3892	-
Thermistor Resistance at 25 °C, kΩ	-	10	-

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The following marking should be used for ordering:

P/N(type of fiber)

Examples: S840.25.30S – as rated above, SMF pigtail, FC/APC; S840.25.30P – as rated above, PMF pigtail, FC/APC.

MMF pigtailed SLDs are available upon request. Modules will be shipped FC/APC finished if not specified otherwise in the PO.

Superlum offers customization of its products to fit the requirements of every customer. Please get in touch with us for more details before ordering if you need customer-specific SLD parameters.