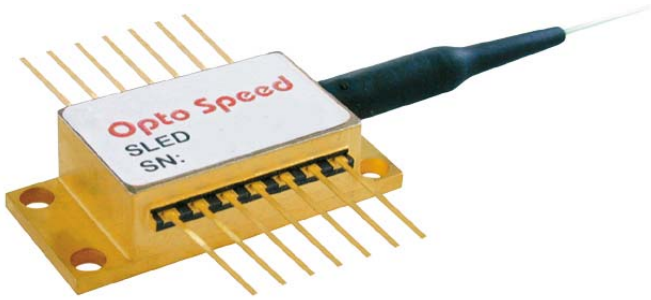
SLED1620H
Superluminescent LED Module



REV 09/01

Features

High output power in SM fibres
Very low ripple
Wide optical bandwidth
Covering the L- or C-&L-band

Product Description

SLED1620Hs are edge-emitting Super luminescent Light Emitting Diodes designed to have very high output power in SM fibres; they operate in the 1.62 μm window. Superluminescent LED's are of great interest for optical low coherence reflectometry, spectrum-sliced wavelength division multiplexed systems, fiber-optic sensors and optical waveguide characterization. Typical applications: Polarization Mode Dispersion and Chromatic Dispersion measurements, OTDR, Gyroscopes.

Packaging

14 pin Butterfly which includes Peltier cooler and 10 kΩ thermistor for device temperature stabilization and 1 m fibre pigtail.
Option: optical connector

Package specifications	Unit
Dimensions L, W, h	30, 12.7, 7.7 mm
Base plate	
Hole pitch L, W / diameter	26.0, 9.0 / 2.7 mm
Length of pins	12.7 mm
Max. Peltier current	1.8 A
Thermistor @25°C	10 kΩ
Fibre-pigtail length	1 m

Specifications @ (T_{SLED} = 20°C)

Model	Unit	SLED1620H0A		
		Min	Typ	Max
Supply current I_S	mA	0		180
Power in SMF	mW	0.02	0.03	
Bandwidth FWHM	nm	180	200	
Peak wavelength	nm	1540	1560	1580
Spectral ripple	dB		0.1	0.2
Model	**Unit**	**SLED1620H1A**		
		Min	Typ	Max
Supply current I_S	mA	0		250
Power in SMF	mW	0.1	0.2	
Bandwidth FWHM	nm	110	130	
Peak wavelength	nm	1560	1580	1600
Spectral ripple	dB		0.1	0.2
Model	**Unit**	**SLED1620H2A**		
		Min	Typ	Max
Supply current I_S	mA	0		200
Power in SMF	mW	0.4	0.7	
Bandwidth FWHM	nm	75	85	
Peak wavelength	nm	1595	1615	1635
Spectral ripple	dB		0.15	0.3
Model	**Unit**	**SLED1620H10A**		
		Min	Typ	Max
Supply current I_S	mA	0		300
Power in SMF	mW	5	8	
Bandwidth FWHM	nm	45	55	
Peak wavelength	nm	1600	1620	1640
Spectral ripple	dB		0.15	0.3

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In case of optoelectronics

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