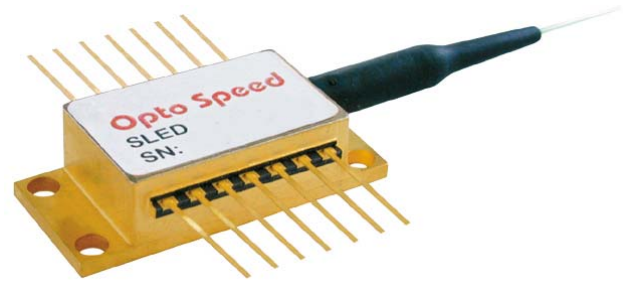


SLED1550H

Superluminescent LED Module



REV 09/01

Features

High output power in SM fibres
Very low ripple
Wide optical bandwidth

Product Description

SLED1550Hs are edge-emitting Super luminescent Light Emitting Diodes designed to have very high output power in SM fibres; they operate in the 1.55 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 k Ω 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 k Ω
Fibre-pigtail length	1 m

Specifications @ ($T_{\text{SLED}} = 20^\circ\text{C}$)

Model	Unit	SLED1550H1A		
		Min	Typ	Max
Supply current	mA	0		150
Power in SMF	mW	0.05	0.08	
Bandwidth FWHM	nm	90	110	
Peak wavelength	nm	1480	1500	1520
Spectral ripple	dB		0.1	0.2
Model	Unit	SLED1550H5A		
		Min	Typ	Max
Supply current	mA	0		200
Power in SMF	mW	1.5	2.5	
Bandwidth FWHM	nm	50	60	
Peak wavelength	nm	1530	1550	1570
Spectral ripple	dB		0.1	0.2
Model	Unit	SLED1550H10A		
		Min	Typ	Max
Supply current	mA	0		250
Power in SMF	mW	5	8	
Bandwidth FWHM	nm	25	35	
Peak wavelength	nm	1530	1550	1570
Spectral ripple	dB		0.15	0.3
Model	Unit	SLED1550H20A		
		Min	Typ	Max
Supply current	mA	0		500
Power in SMF	mW	15	20	
Bandwidth FWHM	nm	25	35	
Peak wavelength	nm	1530	1550	1570
Spectral ripple	dB		0.3	0.5

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In case of optoelectronics

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