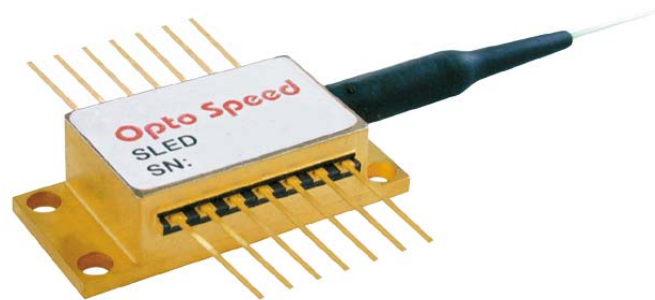


SLED1400H

Superluminescent LED Module



REV 09/01

Features

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

Product Description

SLED1400Hs are edge-emitting Super luminescent Light Emitting Diodes designed to have very high output power in SM fibres; they operate in the 1.40 μ m 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_{SLED} = 20°C)

Model	Unit	SLED1400H5A		
		Min	Typ	Max
Supply current	mA	0		250
Opt. Power in SM fibre	mW	1.5	2.5	
3 dB optical bandwidth	nm	40	50	
Peak wavelength	nm	1380	1390	1420
Spectral ripple	dB		0.1	0.2
Model	Unit	SLED1400H10A		
		Min	Typ	Max
Supply current	mA	0		300
Opt. Power in SM fibre	mW	5	8	
3 dB optical bandwidth	nm	30	40	
Peak wavelength	nm	1380	1400	1420
Spectral ripple	dB		0.15	0.3
Model	Unit	SLED1400H20A		
		Min	Typ	Max
Supply current	mA	0		500
Opt. Power in SM fibre	mW	10	15	
3 dB optical bandwidth	nm	30	40	
Peak wavelength	nm	1380	1405	1420
Spectral ripple	dB		0.15	0.3

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In case of optoelectronics

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Opto Speed Ticino SA Via Cantonale, CH-6805 Mezzovico, Switzerland
Tel. +41 91 935 52 52, Fax +41 91 935 52 62
sales@optospeed.com, www.optospeed.com