

Opto Speed

Superluminescent LED Module

SLED1400D

■ FEATURES

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



■ PRODUCT DESCRIPTION

SLED1400Ds are edge-emitting super luminescent Light Emitting Diodes designed to have very high output power in SM or MM fibres; they operate in the 1.40 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 DIL which includes Peltier cooler and 10 k Ω thermistor for device temperature stabilization and 1m fibre pigtail.

Option: optical connector

Package specifications		Unit
Dimensions L, W, h	21.7 , 12.7 , 12	mm
Heatsink flange W Hole span, diameter	25.4 19, 3.2	mm
Length of pins	6.2	mm
Max. Peltier current	1.8	A
Thermistor @ 25°C	10	k Ω
Fibre-pigtail length	1	m

■ SPECIFICATIONS @ T_{SLED} = 20 °C

MODEL	SLED1400D5A			SLED1400D20A			Units
	Min	Typ	Max	Min	Typ	Max	
Supply current	0		250	0		500	mA
Opt. power in SM fibre	1	2		14	20		mW
3 dB optical bandwidth	45	50		30	40		nm
Central wavelength	1380	1400	1405	1380	1400	1405	nm
Spectral ripple		0.1	0.2		0.1	0.3	dB