

High-Stable Superluminescent Emitting Diodes Source

LumiCore™ high-stability, low-coherence broadband SLED source with two independently active channels for OCT, spectroscopy, and precision metrology



PRODUCT OVERVIEW

Superluminescent emitting diodes boasting excellent high stability, characterized by minimal variations in average output power and spectral profile under controlled conditions. Such stability enables consistent performance in applications requiring repeatable measurements. The spectral width of the SLED’s output influences resolution and accuracy in applications such as optical coherence tomography (OCT) and spectroscopy. The output power based on your intended application — high-power SLEDs facilitate greater measurement path lengths and improved sensitivity.

KEY FEATURES

- Broadband emission
- High stability
- Low coherence
- 2 channels, separately active

APPLICATIONS

- Test Laboratory
- Optical Coherence Tomography (OCT)
- Fiber Optic Sensing
- Medical Diagnostics
- Spectroscopy
- Metrology

SPECIFICATIONS

Optical Parameter

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Power in PMF	Po	10	—	—	mW
Central Wavelength	λ	1530	1550	1570	nm
	λ	1292	1310	1330	nm
	λ	835	850	860	nm
Bandwidth	B _{FWHM}	35	—	—	nm
Spectrum Modulation	R	—	0.2	0.4	dB
Power Output Stability, Room Temperature (25°C)	ΔP	0.05	—	0.01	%
Connector	—	FC/APC			—
Fiber Type	—	Panda 9/125			—
Input Power Supply (AC 60/50 Hz)	V _S	110	220	240	V
Total Power Consumption	P _S	—	—	100	W
Storage Temperature	T _{STG}	10	—	33	°C
Storage Humidity	—	5	—	75	%RH