

SANTEC'S SOLUTIONS FOR OCT

NEW

**VCSEL Swept Source
HSL-1**

The HSL-1 is based on advanced electrically pumped VCSEL (Vertical Cavity Surface Emitting Laser) technology. An attractive laser for SS-OCT applications the HSL-1 takes advantage of a number of features intrinsic to VCSELs to deliver best-in-class performance, including long coherence length, variable scan speed and low signal noise. The HSL-1 has been designed with system integration in mind; a compact, efficient package the laser is also robust, reliable and suitable for mass production.



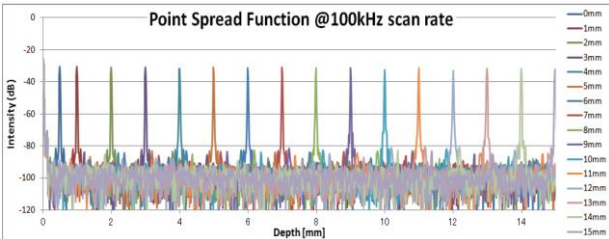
Features

- ▶ 1060nm Wavelength Range
- ▶ Single Mode Lasing: Ultra Long Coherence Length
- ▶ Flexible Scanning Rate, Tuning Range, and Direction
- ▶ Coherence Revival and Mode Competition Noise Free
- ▶ Compact and Designed for Reliability
- ▶ Integrated k-Trigger

Applications

- ▶ Swept Source OCT (SS-OCT)
- ▶ Spectroscopy
- ▶ Interferometry
- ▶ Optical Sensing

Measurement Data



Specifications

	Unit	Specification	Notes
Center Wavelength	nm	1060±15	
Scan Range	nm	>40	-10dB bandwidth
Maximum Scan Speed	kHz	4 to 200	Maximum bi-directional scan speed
Coherence Length	mm	>120	Single Mode Lasing
Average Output Power	mW	>15	>20 (Typical)

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