

1.3 μ m High speed Scanning Laser HSL-20

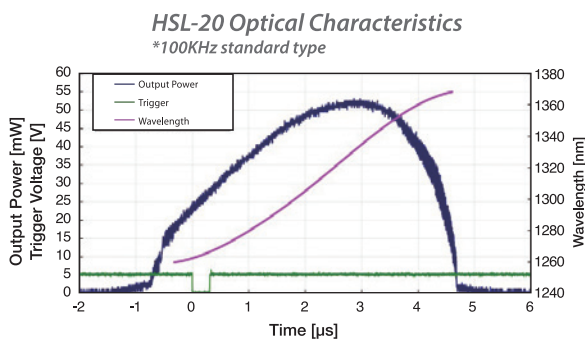
The HSL-20 is Santec's MEMS based swept laser that combines high speed operation with long coherence length in a compact package for the ultimate in integrated sources for SS-OCT imaging. Scan rates up to 100kHz are available from this robust laser that may be configured with start trigger and k-clock depending on system needs.



Features

- ▶ 1310 nm Wavelength Range
- ▶ Wide Scan Range : ≥ 105 nm
- ▶ Long Coherence Length : ≥ 10 mm
- ▶ High Speed Scan Rate : 50 kHz, 100 kHz
- ▶ K-trigger integrated

Measurement Data



Applications

- ▶ Swept Source OCT (SS-OCT)
 - SS-OCT Applications
 - Industrial non-invasive inspection
 - Cardiovascular imaging
 - Defect inspection (resin, molded plastic, etc.)
 - Figuration (semiconductor, etc.)
 - Biology & Medical microscope
- ▶ Spectroscopy
- ▶ Optical Sensing

Specifications

Parameter	Unit	Specification
Main scan rate	kHz	50 or 100 +/- 0.1
Maximum optical output power	mW	≥ 40
Center wavelength	nm	1280 - 1340
Scan range	nm	≥ 105
Coherence Length	mm	≥ 16
Duty cycle	%	≥ 45
Size (W x D x H)	mm	150 x 226 x 72.5

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