

HIGH SPEED 1060 nm SWEPT SOURCE FOR OCT



Product Features & Benefits

- **High Speed (100kHz) Sweep Rate**
- **High Output Power (15mW Average)**
- **Wide (>100nm) Tuning Range**
- **>10 mm Coherence Length**
- **Sinusoidal or Linear Drive**
- **Enables High Resolution and Signal to Noise Ratio**
- **Compact self contained design**
- **USB Interface**
- **Optional MZI Clock output**

Applications

- **Optical Coherence Tomography for**
 - **Ophthalmology**
 - **Gastrointestinal**
 - **Cancer Diagnosis**
 - **Pulmonary**
 - **Industrial Imaging**
 - **Research & Development**
- **Metrology**

Introducing the AXSUN 1060 nm OCT Swept Source

To meet the design challenges of next-generation Optical Coherence Tomography systems, Axsun Technologies introduces a unique, patented Swept Source OCT Engine with superior optical performance, in a compact and cost-effective package.

Product Description

The AXSUN 1060 nm swept source provides high power, wide tuning range, and unprecedented sweep speed and coherence length, in a convenient bench-top design, controllable with an optional USB interface.

Unique Laser Design

Based on AXSUN Technologies' *optical integration* platform, and patented MEMS tunable optical filter, the Axsun swept source enables real time, high resolution OCT imaging at speeds and price points that were previously unattainable.

Speed & Reliability

The industry's highest speed Swept Source is enabled by a patented MEMS tunable filter design that has logged over 500 Million device hours in Optical Networks around the world since 2001. Axsun's optical platform has a well-deserved reputation for high reliability.

Convenient Form Factor

The Axsun Swept Source Engine resides in a compact (208 x 152 x 76 mm) housing and is straightforward to set up and evaluate. The universal AC Power adaptor, simple key on/off switch and optional USB interface allow the user to begin collecting data in a matter of minutes.

Swept Source OCT – Powered by Axsun!

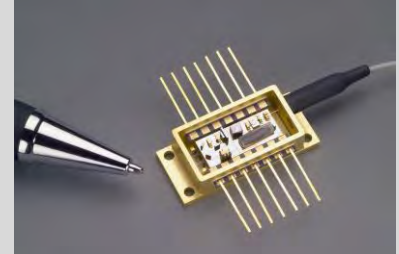
PERFORMANCE SPECIFICATIONS FOR OCT SWEPT SOURCE

Parameter	SSOCT-1060			
	Min	Typ	Max	Units
Wavelength Range (-10dB) (100nm within this range)	980		1100	nm
Center Wavelength	1040		1060	nm
Average output power	15			mW
Sweep Rep Rate				kHz
Coherence Length (3dB) ¹	10			mm
Output Connector				
Sweep Trigger Level				
Sweep Trigger Connector				
Clock Output Level		LVDS/ TTL		
Clock Connector (Frequency Variable)		SMA		
Laser Drive		Sine or Linear		
Power input	110		220	50/60Hz Wall Plug
Power Consumption (~25C)		12		W
Mechanical Dimensions	~208 X 152 X 76 mm ~ 8.2 X 6 x 3 inches			
Interfaces				
USB (optional)	USB-B			
Optical	FC/APC			
Trigger/Clk output	SMA			

Notes

1. Coherence length is round trip up to maximum sweep rate, 3dB fringe depth
2. US Patent Application 60665716

Axsun Patented Swept Source



For more information

Contact AXSUN at:
AXSUN Technologies
1 Fortune Drive
Billerica, MA 01821
USA
+1 978.262.0049
info@axsun.com

Axsun MEMs Tunable Filter

Copyright © 2011
AXSUN Technologies