

Swept Source Controller | ssc225

Applications

- High Frequency Driver for ss225 Swept Laser Sources
- High Frequency Driver for Fiber Fabry-Perot Tunable Filters
- High Frequency Driver for Low-Voltage Multi-Stack PZTs

Features

- Adjustable Scan Frequency
- Adjustable Scan Amplitude
- Adjustable Bias Voltage
- Computer Control
- Compact

Description

The Micron Optics ssc225 is a high-speed controller incorporating a sine-wave function generator and an amplifier dedicated to drive the ss225 swept laser module as well as the fiber Fabry-Perot tunable filter. Through a PC interface, the ssc225 controller can be commanded to provide sinusoidal waveforms at rates up to 12KHz over the full spectral sweep ranges of the lasers and filters.





Specifications ¹

ssc225

Electrical Properties

Drive Frequency	10 Hz ~ 12 KHz
Frequency Adjustment Resolution	1 Hz
Sine Wave Amplitude ²	0 ~ 12 V
Amplitude Adjustment Resolution	~ 12 mV
Sine Wave Bias ²	0 ~ 30 V
Bias Adjustment Resolution	~ 7.3 mV
Communication ³	RS232 at 115.2 kb/s
Total Power Consumption	< 75 W at full load
AC Supply	90 ~ 264 V, 47 ~ 63 Hz, ≤ 75 W

Mechanical Properties

Operating Temperature	Room Temperature
Storage Temperature	-5° C to 55° C
Dimensions	244 mm x171 mm x 53 mm

Notes:

1. Denotes Alpha Prototype. For more detailed description see www.micronoptics.com/product_designation.php.
2. Firmware will adjust sine wave amplitude automatically so that no cutoff will appear at output.
3. Firmware settable.