

Swept Tunable Laser Module

Arcadia Optronix (AO) wavelength-swept laser is based on the semiconductor DBR laser technology and is capable of stable and rapid step-tuned sweep with single longitudinal mode emission. Designed and manufactured with Ao's advanced calibration software, hardware, and firmware technologies, the swept lasers are widely deployed in FBG sensing systems and passive component test systems.

Features

- Wavelength Range: 1528 - 1568 nm
- Fast Sweep: Up to 2 kHz
- Optical Power: 20 mW
- High Wavelength Stability and Accuracy



Specifications	
Wavelength Range	1528 - 1568 nm
Sweep Speed	100 ns/step (Max)
Default Sweep Step	1 Ghz
Absolute Wavelength Accuracy	+/- 10 pm Typ < 5 pm
Relative Wavelength Accuracy	+/- 5 pm Typ < 2 pm
Wavelength Repeatability	+/- 2 pm Typ < 1 pm
Wavelength Stability (- 15 - 55°C)	+/- 2 pm
Optical Power	13 dBm ± 0.5 dBm
Power Stability	+/- 0.05 dBm

Specifications	
Power vs Wavelength Flatness	≤ 0.5 dB
SMSR	> 40 dB
RIN	< - 135 dB/Hz
Linewidth	< 5 Mhz Typ 1 MHz
Fiber Adaptor	FC/APC
Working Temperature Range	- 15 °C - 55 °C
Power Consumption	5 V / 0.7 A
Dimensions	L × W × H = 120 mm × 80 mm × 15.6 mm

Ordering Information

GC-76001C

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Code	Sweep Speed (Hz)
0	1
1	5
2	10
3	50
4	100
5	500
6	1000
7	2000
X	Customized

Code	Trigger
T	TTL
R	RS232

Code	Receptacles Type
A	FC/APC
X	Customized