

High Power Tunable Laser Source (LW2023a)

Features / Benefits

- High output power
- High side-mode suppression ratio
- Narrow line width
- High degree of polarization
- Very stable and repeatable
- Free of hop
- Digital display
- RS232 interface

Applications

- Optical components testing
- In-situ optical monitoring in thin film coating
- Fiber sensing



The Lightwaves2020's high power tunable laser source is a novel compact light source, which is based on Erbium-Doped Fiber technology. The tunable laser source is designed to have a narrow spectral width of less than 0.05nm, high output power up to 17dBm, and high side-mode suppression ratio (SMSR) of 65dB. It offers cost-effective and turn-key solutions for a wide variety of applications, from passive components testing, in-situ optical monitoring and optical sensing that need high power tunable light sources.



High Power Tunable Laser Source (LW2023a)

Safety Information

ESD Protection

The laser diodes and photodiodes in the module can be easily destroyed by electrostatic discharge. Use wrist straps, grounded work surfaces, and anti-static techniques when operating this module. When not in use, the module shall be kept in a static-free environment.



Laser Safety

The module contains class 3B laser source per CDRH, 21CFR 1040.10 Laser Safety requirements. The module is Class IIIb laser product per IEC 60825-1:1993.



Specifications

Parameters	Unit	Specifications
Operating Wavelength Range	nm	1525 - 1565
Nominal Output Power	dBm	17
Output Power Stability	dB/hr	< 0.01
Degree of Polarization	%	100
Side-Mode Suppression Ratio	dB	> 60
Line Width	nm	< 0.05
Wavelength Accuracy	nm	< 0.06
Tuning Resolution	nm	0.01
Driving Voltage (AC)	V	90 to 240
Driving Current	A	< 0.5
Operating Temperature	°C	-5 to 50
Storage Temperature	°C	-20 to 85
Relative Humidity	%RH	5 to 90
Optical Connector	-	FC/APC mating sleeve
Dimensions	mm	257 x 103 x 313

Ordering Information

L W 2 0 2 3 a