ASE-C-20-MSA-3

3 Channels ASE Source, C-Band MSA Module, 20mW

OVERVIEW

The Optilab ASE-C-20-MSA-3 is a 3 channels Amplified Spontaneous Emission (ASE) based broadband light source, designed for general laboratory applications. The ASE-C-20-MSA-3 is a reliable and cost-effective unit that can be ordered with multi channel options. The LD operating temperature and drive current are precisely monitored by a micro-controller to ensure constant output power and emission wavelength stability. With compact size configuration, it's also suitable for OEM integration, User can control the ASE source output power level by adjusting the drive current along with remote status monitoring, contact Optilab for more information.
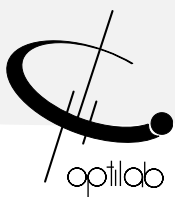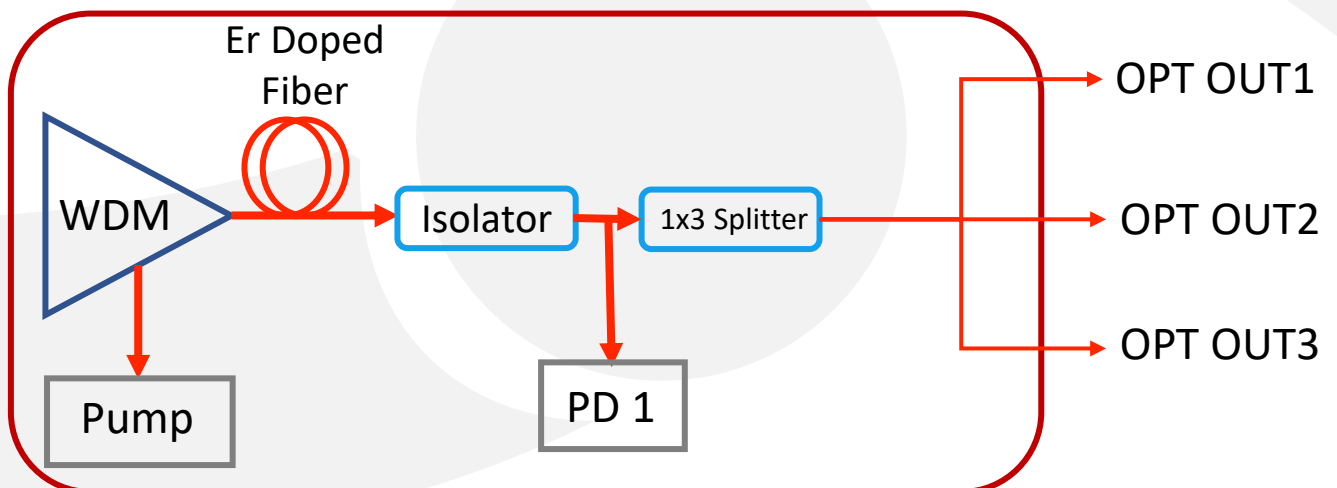
FEATURES

- Compact MSA footprint
- Emission wavelength 1527nm - 1565nm
- Minimal ripple in emission spectrum
- 980 nm pump
- 3 Optical Outputs
- 20 mW per channel
- Monitoring and control Via USB

USE IN

- Fiber Optic Current Sensing
- Optical Tomography
- IMU Integration
- DWDM component characterization
- Optical gyroscope
- White light interferometer

FUNCTION DIAGRAM

ASE-C-20-MSA-3

SPECIFICATIONS

GENERAL

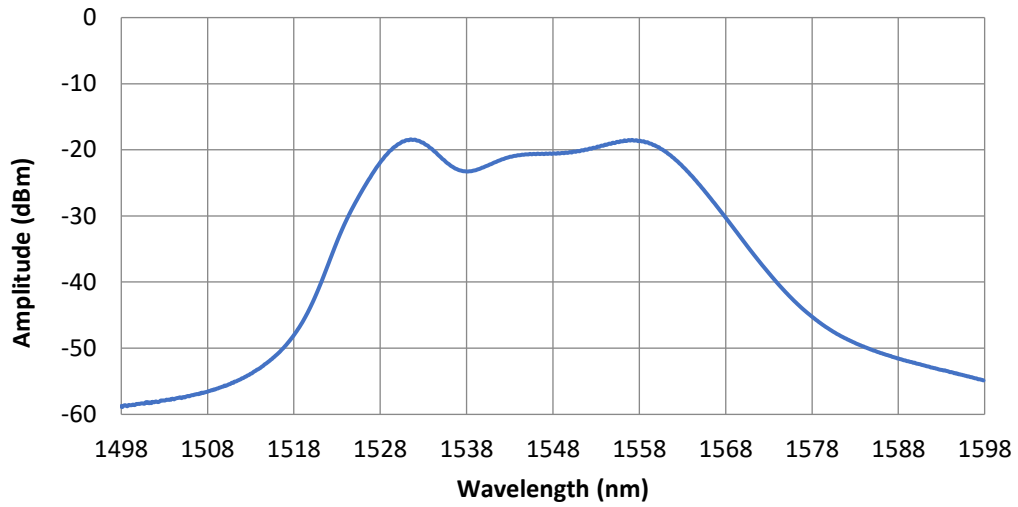|	
Wavelength Range	1527 nm to 1565 nm
Number of Channels	3
Output Power	20 mW min., 30 mW typ. (Per Channel)
LD control	Bias current
Output Power Stability	± 0.5 dB over 8 hours
Spectral Width	37 nm min., 40 nm typ.
Spectral Flatness	± 2.0 dB typ.
Spectral Ripple	2.5% typ.
Center Wavelength Stability	< ± 0.1 nm over 8 hours
Coherent Length	30 um typ.
Optical Isolation	30 dB min.
Output Power Monitoring	Integrated

MECHANICAL

Operating Temperature	10º C to +50º C
Storage Temperature	-10º C to +70º C
Power Supply	+5 V DC, 4.0 A max.
Power Consumption	5 W typ.
Housing Dimensions	90 mm x 70 mm x 29 mm
Connector (Power and Control)	2 x 15 pin header, 1.0 mm pitch
Remote Control	RS-232 via USB
Optical Connectors	FC/APC and other options
Optical Fiber Type	SMF-28
Power Adapters	30 Pin to Molex and USB Adapter, included
Matching Power Supply	Optilab PS-5-M, optional accessory

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SAMPLE TEST REPORT

ACCESSORIES

5V Power Adapter
(Included)

30 PIN Cable
(Included)

Adapter Box
(Included)