Semiconductor Optical Amplifier (SOA) Module



Description

This product is used to amplify optical signals with wavelengths near 1310nm, and can achieve 1290nm, 1310nm single or multi-wavelength amplification.

Features

- Small volume
- Low power consumption
- Low gain flat
- Optical power detection
- ACC, APC and AGC control

Application

- Optical fiber communication (1310nm)
- Lidar
- Fiber optic sensing

62 Highland Ave., Bethlehem, PA 18017, USA
Sales: contact@cybel-llc.com | Web: www.cybel-llc.com | Tel: +1 (610) 691-7012

Specifications

Main Specifications

Main indicators	Specification
Operating Temperature	-5℃ ~65℃
Storage temperature	-40℃ ~85℃
Operating Voltage	5V
Power consumption	≤10W
Weight	≤200g
Way of communication	RS232(can be customized)
Optical indicators	
Working wavelength	1290nm~1310nm
Input optical power	-25dBm~-5dBm
Saturated output optical power	≥10dBm
Small signal gain	15dB~20dB
Noise index	≤7.5dB
Gain flatness	≤2dB
Input optical isolation	≥45dB
Output optical isolation	≥45dB
Output light stability	±0.1dB
polarization dependent gain	≤2dB
Polarization mode dispersion	≤0.5ps

Fiber characteristics

Parameter	Specification
Fiber type	Ordinary single mode fiber
Fiber length	1.0±0.1m
Fiber diameter	900um loose tube
Optical fiber interface	FC/APC

Dimension

