Semiconductor optical amplifier manufacturer in stock



Overview

77 suppliers for optical amplifiers are listed in the RP Photonics Buyer''s Guide, out of which 12 present their product descriptions and images. Both manufacturers and distributors can be registered.

Key Takeaways

Several manufacturers, including AeroDIODE, SIMTRUM, and RPMC Lasers, offer semiconductor optical amplifiers (SOAs) as stock items for immediate purchase. Key Manufacturers and Stock OptionsAeroDIODE provides SOAs in both 1310 nm and 1550 nm ranges, available as stock items or integrated with pulsed and CW drivers. Their modules support polarization-independent operation and come with GUI-controlled electronics for easy integration.

These SO

As can handle high gain and output power up to 400 mW (26 dBm), suitable for fiber-coupled photonics systems, optical signal processing, and intensity modulation applications.

SIMTRU

M Photonics offers a wide range of SOA products, including chips, butterfly packages, and COC types, covering wavelengths from 1060 nm to 1650 nm. They provide both low polarization and polarization-maintaining (PM) options, with technical support and downloadable product line cards for detailed specifications.

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RPM

C Lasers supplies high-performance SOAs in the NIR/SWIR range, featuring polarization-insensitive traveling-wave designs. Their OSE7 Optical Spectral Engine provides robust in-line amplification across a broad spectral range.

RPM

C also offers customization for center wavelength, bandwidth, and other parameters, making them suitable for defense, medical, industrial, and research applications. Applications and AdvantagesSOAs are compact alternatives to erbium-doped fiber amplifiers (EDFAs), capable of operating across a wide range of wavelengths, including 1300 nm, visible, and mid-IR bands. They are used for telecom signal amplification, optical signal processing, wavelength conversion, and high-speed modulation.

Compared to EDF

As, SOAs offer faster gain dynamics, smaller form factors, and broader wavelength flexibility, though they may have higher noise figures.

Considerations for Selection

When selecting an SOA, consider key specifications such as gain flatness, polarization-dependent gain, noise figure, and saturation output power. For analog applications like CATV, carrier-to-noise ratio (CNR) and composite second-order (CSO) distortion thresholds are also critical. Stock availability varies by manufacturer, so contacting suppliers directly for current inventory and lead times is recommended.

These manufacturers provide reliable stock options for immediate deployment in optical communication systems, research setups, and industrial photonics applications.

Article Content

Semiconductor Optical Amplifier | TODAY | 750-1550

Our Semiconductor Optical Amplifiers (SOA) are offered as stock items or mounted on this Pulsed and CW SOA driver for best performances from ~1 ns pulse up to

Semiconductor Optical Amplifiers – Buyer''s Guide

This buyer''s guide for semiconductor optical amplifiers provides technical background, comparison of major types, selection criteria, and an overview of

Semiconductor Optical Amplifier (SOA) | SIMTRUM Photonics Store

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SIMTRUM offers a wide range of full-band semiconductor optical amplifier (SOA) products, including chips, COC, butterfly types and devices, with low polarization and polarization maintaining (PM)

Semiconductor Optical Amplifiers (SOA) | NIR/SWIR | shop | RPMC

RPMC Lasers offers high-performance Semiconductor Optical Amplifiers (SOAs) in the NIR/SWIR range, featuring polarization-insensitive traveling-wave designs for efficient amplification of both

Semiconductor Optical Amplifier

We offer broadband optical semiconductor amplifiers for each wavelength range. This product is a "Semiconductor Optical Amplifier (SOA)" used as a light source for medical and industrial OCT

Optical Amplifiers – Buyer''s Guide & Suppliers

77 suppliers for optical amplifiers are listed in the RP Photonics Buyer''s Guide, out of which 12 present their product descriptions and images. Both manufacturers and distributors can be registered.

Semiconductor Optical Amplifier (SOA) | SIMTRUM Photonics Store

SIMTRUM offers Single-Polarization Semiconductor Optical Amplifiers at 1060/1310/1450/1550/1600 /1650nm are designed by using high-quality angled SOA chips and dual lenses coupling to different

$SIVE is structurally positioned to be a major winner in the next ...

$SIVE is raising ~$61M (600M SEK) to expand manufacturing capacity for InP lasers and optical amplifiers. Sivers operates as a fab-lite model so this is likely hinting at foundry

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Fairchild Semiconductor

Fairchild Semiconductor International, Inc. was an American semiconductor company based in San Jose, California. It was founded in 1957 as a division of Fairchild Camera and Instrument by the

Home | Silicon Carbide Power Solutions & Materials

Wolfspeed is leading the adoption of silicon carbide (SiC) technologies by providing solutions for efficient energy and a sustainable future.

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ASML | The world''s supplier to the semiconductor industry

ASML is the leading supplier to the semiconductor industry, driving lithography system innovation to make chips smaller, faster and greener.

VIAVI Solutions | Network Test, Monitoring, and Assurance

Our test, monitoring, assurance, and resilient position, navigation and timing solutions enable and secure critical infrastructure ranging from data center

Cirrus Logic, Inc. | Cirrus Logic

Let''s build something new together Cirrus Logic''s hardware and software solutions elevate the consumer experience for the world''s top mobile and consumer

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Semiconductor Optical Amplifier

Semiconductor Optical Amplifier manufacturers, handling companies and product information Reference price is compiled here. IPROS GMS offers comprehensive B2B resources for the Semiconductor

Optical Amplifiers

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Supply Chain & Distribution Archives

Supply Chain & Distribution Manufacturing Expands in June Amid Global Unrest U.S. manufacturing expanded in June, but Middle East conflict impacted raw materials.

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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