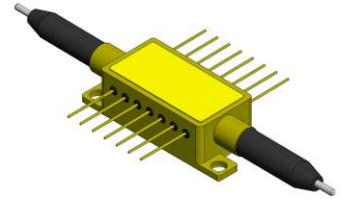


Semiconductor Optical Amplifier (SOA)

Optical Spectral Engine (OSE7)

DAYY Photonics Semiconductor Optical Amplifiers (SOAs) are high-performance, polarization-insensitive traveling-wave devices designed for efficient amplification of both monochromatic and broadband optical signals. Engineered for use as in-line amplifiers, these SOAs offer exceptional optical performance across a broad spectral range. Utilizing advanced epitaxial wafer growth and state-of-the-art optoelectronic packaging techniques, the amplifiers deliver:



- **High output saturation power**
- **Low noise figure**
- **Wide optical gain bandwidth**

Each device is housed in a robust, industry-standard 14-pin butterfly package, available with either single-mode (SM) or polarization-maintaining (PM) fiber pigtailed, and terminated with FC/APC connectors to ensure low insertion loss and high reliability in system integration.

KEY FEATURES

- Broad product range with centers wavelengths (CW) ranging from 770nm-1680nm
- Bandwidths (FWHM) ranging from 20nm to 120nm
- Small signal gains from: 18dB to 25dB
- Saturation output power 13dBm to 23dBm
- High gain, low power consumption
- Light output: FC/APC Connector (Optional FC/PC or SMA)
- Internal Thermoelectric Cooler
- Single mode (SM) or Polarization maintaining (PM) fiber
- Industry-standard, 14-pin butterfly package.

APPLICATIONS

- Optical Component Testing
- Telecom Test Equipment
- Loss compensation for fiber-optic connection and switch
- WDM fiber-optic networks
- Industrial and Biomedical Imaging Systems
- Optical Sensing
- Test and Measurement
- Research and Development



Fibre-Coupled Products

