## CONSTELEX

## High-Power fiber Pre-amplifier

## PEGASUS Series



## Specifications

| PECASUS Series |  |  |  |
| :--- | :---: | :---: | :---: |
| Specification | Value | Units | Notes |
| Input wavelength range | $1530-1565$ | nm |  |
| Saturated Output Power | +16 | dBm | Pin $=-30 \mathrm{dBm}$ |
| Input Power | $>-40$ | dBm |  |
| Small Signal Gain | $>40$ | dB | Pin $=-20 \mathrm{dBm}$ |
| Noise Figure (NF) | $<4$ | dB | Pin $=-30 \mathrm{dBm}$ <br> $@ 1550 \mathrm{~nm}$ |
| Input wavelength range | $1535-1565$ | nm |  |
| Noise Figure (NF) | $<3.7$ | dB | Pin $=-35 \mathrm{dBm}$ <br> $@ 1555 \mathrm{~nm}$ |

Environmental Conditions

| Operating Temperature | $15-50$ | ${ }^{\circ} \mathrm{C}$ |  |
| :--- | :---: | :---: | :---: |
| Storage Temperature | -20 to +60 | ${ }^{\circ} \mathrm{C}$ |  |
| Humidity | $0-95 \%$ |  |  |

Electrical \& Mechanical Specifications

| Operating Voltage | 85-264 | VAC | @ 47-63 Hz |
| :---: | :---: | :---: | :---: |
| Interface | Serial |  | RS-232 \& GUI |
| Power Consumption | < 40 | W |  |
| Dimensions | $47 \times 27 \times 10$ | cm |  |
| Ordering Information |  |  |  |
| Order Code: PEGASUS-X-FCAPC |  | With ASE: $\mathrm{X}=1$ |  |
| Other connectors available upon request |  |  |  |
| All information is accurate and subject to change without notice. |  |  |  |



LASER RADIATION AVOID EXPOSURE TO BEAM CLASS 3B LASER PRODUCT

## Description

The PEGASUS series is Constelex advanced series of amplifiers. They are specially designed pre-amplifiers and offer high output power, very low noise signal levels and very low input power level. The PEGASUS comes in a user-friendly benchtop enclosure with front panel control and display, as well as serial interface and software for remote operation.

PEGASUS amplifiers are ideal building blocks for low noise optically pre-amplified receiver systems suitable for fiber-optic testbeds and test \& measurement setups. The series was designed for amplification of very weak signals making these amplifiers ideal for testing research prototypes with high loss or photonic chips with high chip-to-fiber coupling losses.

## Applications

- Photonics R\&D
- Photonic chip testing
- Optical Receivers
- Prototype testing


## Typical Performance


thinking outside the box

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