



## Low Noise Fiber Pre-amplifier

## PEGASUS Series



### Description

The PEGASUS optical amplifier 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.

### Specifications

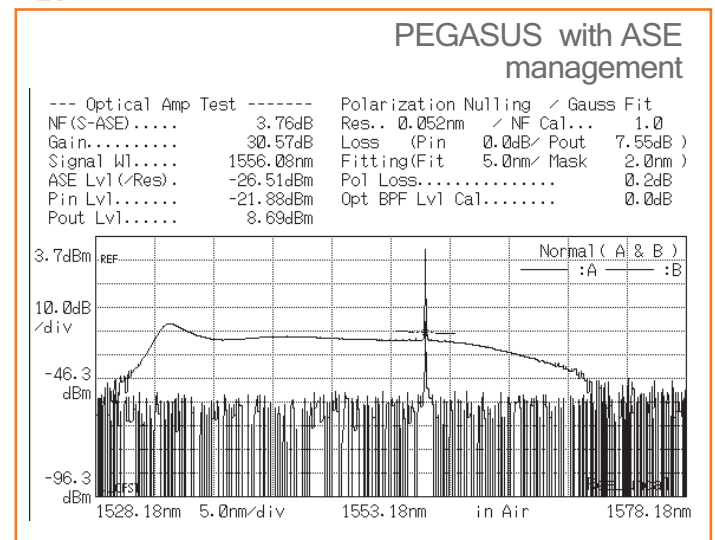
| PEGASUS Series  |              |                 |                        |
|---|--------------|-----------------|------------------------|
| Specification   | Value        | Units           | Notes                  |
| Input wavelength range  | 1530-1565    | nm              |                        |
| Saturated Output Power  | 7            | dBm             | Pin = -20 dBm          |
| Input Power   | -30          | dBm             | Pout > 0 dBm           |
| Small Signal Gain   | > 28         | dB              | Pin = -20 dBm          |
| Noise Figure (NF)   | < 4          | dB              | Pin = -20 dBm @1555 nm |
| ASE Management Option   |              |                 |                        |
| Input wavelength range  | 1535 - 1565  | nm              |                        |
| Noise Figure (NF)   | <3.7         | dB              | Pin = -20 dBm @1555 nm |
| Environmental Conditions  |              |                 |                        |
| Operating Temperature   | 15 - 50      | °C              |                        |
| Storage Temperature   | -20 to +60   | °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 x 27 x 10 | cm              |                        |
| Ordering Information  |              |                 |                        |
| Order Code: PEGASUS-X-FCAPC                                       |              | With ASE: X = 1 |                        |
| Other connectors available upon request                           |              |                 |                        |
| All information is accurate and subject to change without notice. |              |                 |                        |

PEGASUS amplifiers are ideal building blocks of low noise optically pre-amplified receiver systems suitable for core and access network testbeds. The series was designed for amplification of very weak signals making these amplifiers ideal for testing

### Applications

- Photonics R&D
- Chip testing
- Optical Receivers
- Prototype testing

### Typical Performance



**LASER RADIATION**  
**AVOID EXPOSURE TO BEAM**  
**CLASS 4 LASER PRODUCT**



thinking outside the box