

OSICS ATN

HIGH-POWER VARIABLE OPTICAL ATTENUATOR



The OSICS ATN module integrates industry-standard attenuator components. It combines a 60 dB attenuation range with the power to operate throughout a large wavelength range.

KEY FEATURES

60 dB attenuation range

Low return loss

2 W maximum input power

Easy real-time operation

OSICS platform with single-slot module

As part of a test setup, ATN modules can be used to equalize channels and reach low power levels without modifying source signal-to-noise ratio. This is especially useful for optical amplifier characterization.

With an input power of 2 W, these modules are ideal for use in large channel-count DWDM testbeds.

KEY FEATURES

60 dB attenuation range with 0.1 resolution

The OSICS ATN features a broad attenuation range that allows you to address all attenuation requirements with a single module.

Low return loss

Thanks to the OSICS ATN's low return loss, you no longer need to use an additional optical isolator in front of the attenuator to ensure laser stability.

2 W maximum input power

These modules are ideal for optical amplifier testing or multiwavelength attenuation.

Easy real-time operation

The platform's user-friendly interface lets you adjust the attenuation in real time.

OSICS platform with single-slot module

Take advantage of all OSICS platform features, including commands, hosting of up to eight modules (DFBs included), high-performance tunable laser sources and optical switches.

TECHNICAL SPECIFICATIONS *

| | SMF models | PMF models |
|--|--------------------------------------|---|
| Wavelength range (nm) | 1250 to 1650 | 1440 to 1650 ^a 1250 to 1510 ^b |
| Attenuation range | IL to 60 dB typ. | |
| Calibrated range | Up to 40 dB at 1310 nm and 1550 nm | Up to 40 dB at 1550 nm ^a , 1625 nm ^a and 1310 nm ^b |
| Attenuation accuracy (typ.) ^c | ±0.3 dB | |
| Insertion loss (IL) | < 2 dB (1 dB typ.) | |
| Attenuation setting and display resolution | 0.1 dB (Display resolution: 0.01 dB) | |
| Polarization dependent loss ^d | < 0.1 dB | |
| PER | N/A | ≥ 18 dB |
| Return loss ^e | > 50 dB | |
| Maximum input power | 2 W (+33 dBm) | |
| Optical connectors ^f | FC/APC narrow key | |

* Specifications apply for wavelengths not equal to any water absorption line.

Notes

- a. On PM15 fiber
- b. On PM13 fiber
- c. Up to 30 dB attenuation
- d. Total PDL including both FC-APC connectors
- e. RL at 1550 nm for SMF and PM15, RL at 1310 nm for PM13
- f. PMF: slow axis is aligned to connector key

ORDERING INFORMATION

OS-ATN-XX-58

Wavelength range and fiber type

F = 1250 - 1650 nm, SMF28 singlemode fiber
 OES-P = 1250 - 1510 nm, PM13 polarization maintaining fiber
 SCL-P = 1440 - 1640 nm, PM15 polarization maintaining fiber

Wavelength range and fiber type

58 = FC/APC

Example: OS-ATN-SCL-P-58

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