

OSICS ATN-HP

Variable Optical Attenuator

The OSICS ATN-HP module integrates industry standard attenuator components. It combines a 60 dB attenuation range and operates throughout a large wavelength range.

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

The ability to receive up to 2 W input power allows to use the module in large channel count DWDM test-beds.

Specifications

	SMF	PMF
Wavelength Range	1250–1650 nm	1440–1650 nm*1 1250–1510 nm*2
Attenuation Range	1L to 60 dB typ.	
Calibrated Range	Up to 40 dB at 1310 nm and 1550 nm	Up to 40 dB at 1550 nm*1, 1625 nm*1 and 1310 nm*2
Attenuation Accuracy (typ.)*3	±0.3 dB	
Insertion Loss (IL)	< 2 dB (1 dB typ.)	
Attenuation Setting Resolution	0.1 dB	
Polarization Dependent Loss*4	< 0.1 dB	
PER	n/a	≥ 18 dB
Return Loss*5	> 50 dB	
Maximum Input Power	2 W (+33 dBm)	
Optical Connectors*6	FC/APC narrow key	

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

*1: On PM15 fiber.

*2: On PM13 fiber.

*3: Inside calibrated range.

*4: Total PDL including both FC-APC connectors.

*5: RL at 1550 nm for SMF & PM15, RL at 1310 nm for PM13.

*6: PMF: slow axis is aligned to the connector key.

Key Features

- 2 W Input Power**
for optical amplifier testing or multi-wavelength attenuation.
- 60 dB Attenuation Range with 0.1 dB Resolution**
The large attenuation range capability allows to adapt to any set-up with a single instrument.
- Real-time and Easy Operation**
The platform user-friendly interface allows real-time adjustment of the attenuation. Each module attenuation can be read at any time on the OSICS front panel.
- Low Return Loss**
There is no more need to use additional optical isolator in front of the attenuator to avoid perturbations to your lasers stability thanks to the low return loss of the OSICS ATN-HP.
- Single-slot Module Inside the OSICS Platform**
You will benefit from all OSICS platform capabilities: remote commands, ability to host up to 8 modules including DFBs, high performances tunable laser sources, optical switches, etc.



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