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 *

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<th>SMF models</th>
<th>PMF models</th>
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<td>Wavelength range (nm)</td>
<td>1250 to 1650</td>
<td>1440 to 1650 a</td>
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<td>1250 to 1510 b</td>
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<td>Attenuation range</td>
<td>IL to 60 dB (typical)</td>
<td>Up to 40 dB at 1550 nm a</td>
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<td>Up to 40 dB at 1550 nm a</td>
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<td>Attenuation accuracy (typical)</td>
<td>±0.3 dB</td>
<td>&lt; 0.1 dB</td>
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<td>Insertion loss (IL)</td>
<td>&lt; 2 dB (1 dB typical)</td>
<td>&lt; 2 dB (1 dB typical)</td>
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<td>Attenuation setting and display resolution</td>
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<td>0.1dB (display resolution: 0.01dB)</td>
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<tr>
<td>Polarization dependent loss</td>
<td>&lt; 0.1 dB</td>
<td>&lt; 0.1 dB</td>
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<tr>
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<td>N/A</td>
<td>≥ 18 dB</td>
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<td>&gt; 50 dB</td>
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<td>2 W (33 dBm)</td>
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<td>Optical connectors</td>
<td>FC/APC narrow key</td>
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* 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  

Example: OS-ATN-SCL-P-58

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