

# 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.

SPEC SHEET

## KEY FEATURES

60 dB attenuation range

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Low return loss

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2 W maximum input power

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Easy real-time operation

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OSICS platform with single-slot module

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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 <sup>a</sup> 1250 to 1510 <sup>b</sup>
Attenuation range	IL to 60 dB (typical)	
Calibrated range	Up to 40 dB at 1310 nm and 1550 nm	Up to 40 dB at 1550 nm <sup>a</sup> 1625 nm <sup>a</sup> 1310 nm <sup>b</sup>
Attenuation accuracy (typical) <sup>c</sup>	±0.3 dB	
Insertion loss (IL)	< 2 dB (1 dB typical)	
Attenuation setting and display resolution	0.1 dB (display resolution: 0.01dB)	
Polarization dependent loss <sup>d</sup>	< 0.1 dB	
PER	N/A	≥ 18 dB
Return loss <sup>e</sup>	> 50 dB	
Maximum input power	2 W (33 dBm)	
Optical connectors <sup>f</sup>	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

**EXFO Headquarters** > Tel.: +1 418 683-0211 | Toll-free: +1 800 663-3936 (USA and Canada) | Fax: +1 418 683-2170 | info@EXFO.com | [www.EXFO.com](http://www.EXFO.com)

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