

# OVA-100 Optical Variable Attenuator

Corning Cable Systems' Optical Variable Attenuator (OVA) demonstrates user-specified amounts of loss when inserted in single-mode systems. A single control knob adjusts the amount of attenuation from 3 to 65 dB in 0.1 dB increments for 1310 nm and 1550 nm. The unit is available with a choice of connector options and operates for over 120 hours from a single 9V battery, automatically indicating a low-battery condition. The attenuator is commonly used in bit-error-rate (BER) testing, system loss simulation, and optical loss margin analysis. When used in conjunction with a laser source (OS-series) and a power meter (OTS-series), the OVA can also perform system acceptance testing, opto-electronics, and component evaluation, and power meter and test set calibration.

## APPLICATIONS

- Can be used in conjunction with Corning Cable Systems' OS and OTS series of optical sources and power meters
- Commonly used in bit-error-rate (BER) testing, system loss simulation, and optical loss margin analysis
- Can perform system acceptance testing, opto-electronics, component evaluation, and power meter/test set calibration



## FEATURES AND BENEFITS

- Attenuation adjusted with a single knob (3 to 65 dB in 0.1 dB increments for 1310 and 1500 nm)
- Available with a choice of connector options
- Operates for over 120 hours from a single 9V battery



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# OVA-100 Optical Variable Attenuator

## SPECIFICATIONS

<i>Parameter</i>	<i>Specification</i>
<i>Part Number</i>	OVA-100-XX (see connector type below)
<i>Wavelength</i>	1310/1550 nm single-mode
<i>Attenuation Range</i>	3 to 65 dB
<i>Resolution</i>	0.1 dB
<i>Backreflection</i>	≠/ < -45 dB (excluding connectors)
<i>Insertion Loss</i>	≠/ < 3.0 dB
<i>Repeatability</i>	+/- 0.2 dB
<i>Linearity</i>	+/- 0.8 dB (max. 0 to 60 dB)
<i>Maximum Input Power</i>	+ 23 dBm (200mW)
<i>Connector Types* (=XX)</i>	SC (52), FC (54), ST compatible (55)
<i>Display</i>	3 digit LCD
<i>Operation</i>	9 volt Alkaline battery
<i>Continuous Operating Time</i>	> 120 hours
<i>Operating Temperature</i>	-10 to +50°C
<i>Storage Temperature</i>	-40 to +60°C
<i>Relative Humidity</i>	0-95%
<i>Dimensions (H x W x D)</i>	90 mm x 160 mm x 48 mm
<i>Weight</i>	1 lb

*\*All connector types are single-mode.*



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