



VOABlade

Variable Optical Attenuator

Key Features

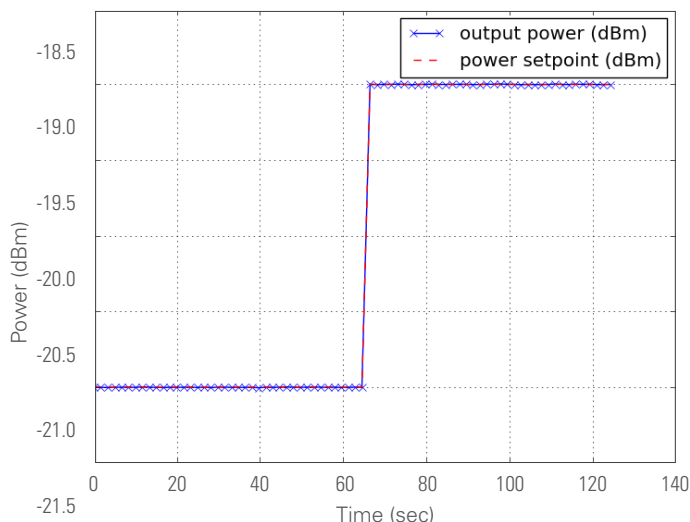
- Your choice of up to 4 attenuators per blade
- Choose between broad and narrow wavelength
- Integrated power meters for precise output power control
- Polarization-maintaining fiber compatible

Stable Power Input

The built-in power meter and power stabilization function lets you set and maintain the output power stability even when the input power fluctuates. You will get reliable and repeatable test results, each and every time.

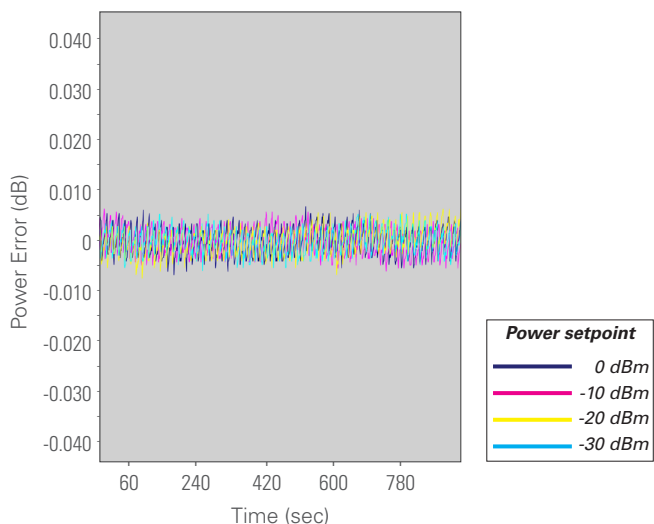
Coherent Solution’s VOABlade is a reliable, fast and high density attenuation solution for research and continuous-production environments. Each blade has an integrated power meter for precise output power control, even with fluctuating input. With up to 9 VOABlades in a single MTP1000, you have up to 36 individual attenuators - which can be controlled individually or in sync through one, intuitive software application.

VOABlade Power Control



This graph illustrates how quickly Coherent Solutions’ VOA moves to the desired setpoint.

VOABlade Power Stability - Power Mode



This graph illustrates the power output stability of < 0.005 dB RMS at various power setpoints.

Technical Specifications¹

General Specifications	VOABlade
Dimensions (HxWxD)	130 mm x 40mm x 305 mm (5.1" x 1.6" x 12")
Weight	~ 1 kg (~2.2 lbs)
Operating temperature range	5 °C to 45 °C (41 °F to 113 °F)
Storage temperature range	-40 °C to 70 °C (-40 °F to 158 °F)

Band ¹	CWDM8	Broadband	1550 nm	1490 nm	1310 nm
Fiber Connector	FC/PC, FC/APC, SC/APC, SC/PC				
Fiber Type	SMF-28		SMF-28 or PM	SMF-28	
Number of Channels	2 or 4				
Wavelength range	1260 nm to 1620 nm	1260 nm to 1620 nm	1550 nm to 1620 nm	1440 nm to 1530 nm	1260 nm to 1360 nm
Power	-50 to +20 dBm				
Damage level	+23 dBm				
Insertion Loss ³	< 2.0 dB		< 1.2 dB	< 1.8 dB	< 2.0 dB
WDL	< 0.02 dB/nm				
Return loss ³	> 45 dB				
Warm-up time	< 20 mins				
Attenuation range typical ⁵	> 46 dB				
Attenuation range guaranteed ⁵	> 44 dB				
Attenuation resolution	0.01 dB				
Attenuation speed	0.1 to 1000 dB/s				
Power meter polarization dependent responsivity ^{2,3}	< 0.2 dB				
Power meter linearity ^{2,5}	±0.1 dB		±0.06 dB	±0.08 dB	±0.08 dB
Power meter total uncertainty ^{2,3,5}	±0.34 dB (typ) ±0.55 dB (max)				
Power meter averaging time	25 ms to 10 s				
Power meter resolution	0.1 dB				

Notes: ¹ Specifications are valid at 23 °C ± 3 °C. ² +10 dBm to -40 dBm, 23 °C. ³ Excluding connectors. ⁴ < 10 dB attenuation. ⁵ at calibration wavelengths.

Ordering Information

Mainframe: **MTP1000 | MTPmini**

Single mode VOA with integrated power meter

VOABlade - X - XX - SM - XX

Number of attenuators

2 = 2 attenuators

4 = 4 attenuators

Wavelength Band

CWDM8 = 1271, 1291, 1311, 1331,
1351, 1371, 1431, 1451 nm

BB = Broadband

13 = 1310 nm

14 = 1490 nm

15 = 1550 nm

Connector Type

FC = FC/PC

FA = FC/APC

SC = SC/PC

SA = SC/APC

Polarization maintaining VOA with integrated power meter, 1550 nm

VOABlade - X - 15 - PM - XX

Number of attenuators

1 = 1 attenuator

2 = 2 attenuators

Connector Type

FC = FC/PC

FA = FC/APC

SC = SC/PC

SA = SC/APC

To find out more, get in touch with us today.

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