

VOAPXle

VOAPXle

Precise and Fast Variable Optical Attenuator

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 with VOAPXle. The VOAPXle seamlessly integrates with PXIe mainframe, allowing for scalability.

Key Features

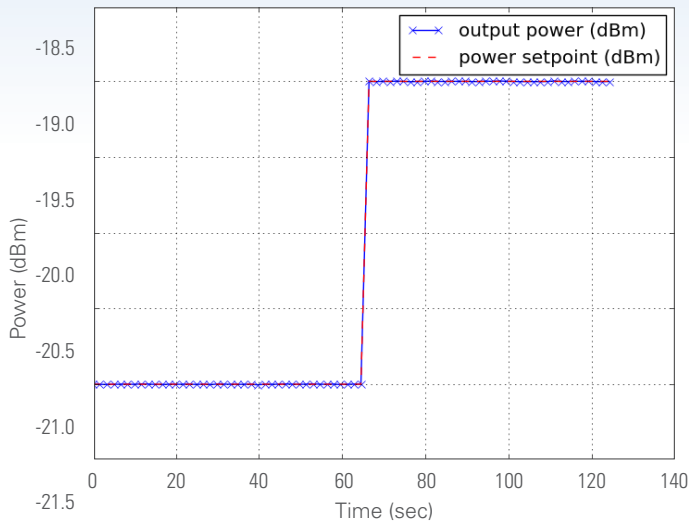
- 2 attenuators per blade
- Choose between broad and narrow wavelength
- Integrated Power Meters for precise output power control
- Low insertion loss

Stable Output Power

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.

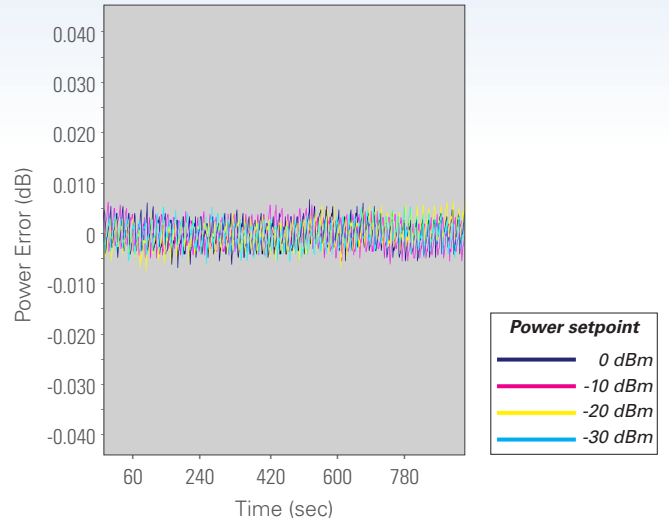
Coherent Solution's VOAPXle is a reliable, fast and high density attenuation solution for research and continuous-production environments. Each blade has an integrated power meter for precise output power control, even with fluctuating input. With up to 17 VOAPXles in a single chassis, you have up to 34 individual attenuators - which can be controlled individually or in sync through one, intuitive software application.

VOAPXle Power Control



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

VOAPXle Power Stability - Power Mode



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

Technical Specifications¹

Model Number	1001-2	1002-2	1003-2	1004-2	1005-2
	CWDM8	Broadband	1310 nm	1490 nm	1550 nm
Fiber Connector	FC/PC, FC/APC, SC/APC, SC/PC				
Fiber Type	SMF-28				
Number of Channels	2				
Wavelength range	1260 nm to 1650 nm	1260 nm to 1650 nm	1260 nm to 1360 nm	1440 nm to 1530 nm	1520 nm to 1650 nm
Power	-50 to +20 dBm				
Damage level	+23 dBm				
Insertion Loss ³	< 1.3 dB at 1310nm	< 2.0 dB	< 1.3 dB at 1310nm	< 1.8 dB	< 1.3 dB at 1550nm
WDL	< 0.02 dB/nm				
Return loss ³	> 45 dB				
Warm-up time	< 20 mins				
Bus Connector	PXIe				
PXI slots	1				
Dimensions (HxWxD)	130 mm x 20mm x 215 mm (5.1" x 0.8" x 8.5")				
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)				

Attenuator	1001-2	1002-2	1003-2	1004-2	1005-2
Calibration wavelengths	1310 nm, 1490 nm, 1550 nm	1310 nm, 1490 nm, 1550 nm	1310 nm	1490 nm	1550 nm
Attenuation range (typical)	> 46 dB				
Attenuation range (guaranteed)	> 44 dB				
Resolution	0.01 dB				
Attenuation speed	0.1 to 1000 dB/s				

Power meter	1001-2	1002-2	1003-2	1004-2	1005-2
Calibration wavelengths	1271 nm, 1291 nm, 1311 nm, 1331 nm, 1351 nm, 1371 nm, 1391 nm, 1411 nm, 1490 nm, 1550 nm	1310 nm, 1490 nm, 1550 nm	1310 nm	1490 nm	1550 nm
Polarization dependent responsivity ^{2,3}	< 0.2 dB				
Linearity ^{2,5}	± 0.1 dB		± 0.08 dB		± 0.06 dB
Total Uncertainty ^{2,3,5}	± 0.34 dB (typ) ± 0.55 dB (max)				
Averaging time	100 µs to 10 s				
Data logging	1 to 1024 points per port				
Resolution	0.01 dB				

PRELIMINARY SPECS AS OF JUNE 2018

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

VOAPXle - XXXX - X - XX - NI

Configuration number

- 1001-2** = SM, CWDM8 (1271, 1291, 1311, 1331, 1351, 1371, 1431, 1451nm)
- 1002-2** = SM, broadband (1310, 1490, 1550nm)
- 1003-2** = SM, 1310nm
- 1004-2** = SM, 1490nm
- 1005-2** = SM, 1550nm

Connector Type

- FC = FC/PC
- FA = FC/APC
- SC = SC/PC
- SA = SC/APC

Number of attenuators




- 2 = 2 attenuators



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

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