

Optical Component Test Agilent Optical Attenuators



- Modular design for increased flexibility, reduced footprint and low cost per channel
- Enables test of high-bit rate transmission systems and modern optical amplifiers due to wavelength flatness, high power handling, low insertion loss and low PMD
- Easy and fast calibration of optical setups increases the test system's reliability and throughput





Optical Component Test

Agilent 81570A/71A/73A/75A Optical Attenuators

The Agilent 8157xA Variable Optical Attenuator modules attenuate and control the optical power level of light in single mode optical fibers. Their high accuracy combined with their flexibility make them the most efficient test and measurement equipment for applications such as Bit Error Ratio test and optical amplifier test.

Simple Testing by Defining Reference Power Levels

set attenuation factor

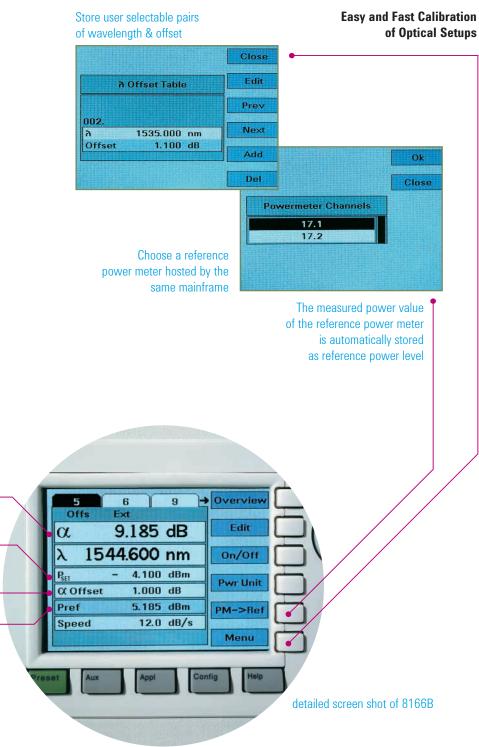
with high resolution

set relative power level,

set reference power level

referring to reference power

offset to calibrate for insertion loss

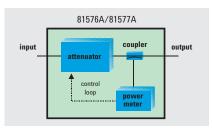


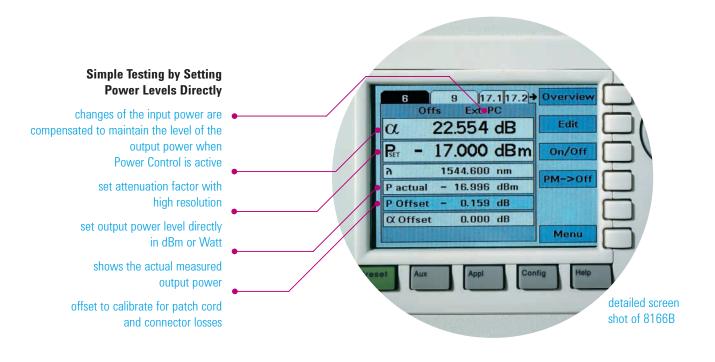


Optical Component Test

Agilent 81576A/81577A Optical Attenuators with Power Control

The Agilent 81576A/77A allow you to set the output power level of the attenuator directly reducing test time. In addition, the modules feature power control functionality: a signal from a photo diode after a monitor coupler is used for an active feedback loop.







The attenuator modules fit into the lightwave solution platform (mainframes 8163B, 8164B, and 8166B) offering flexible and scalable test solutions with small footprint.



Agilent Lightwave and Photonic Measurement Solutions

		Passive Component Test													Optical Amplifier Test			Bit Error Ratio Test		
	Mux/DeMux/V-Mux	TFF Test	FBG Filter Test	Connector Test	Switch Test	TFF Align-/Adjustment	Fiber to AWG Alignment/ AWG Chip Test	Coupler/Splitter/Combiner	Isolator/Circulator	Variable Optical Attenuator	Gain Flattening Filter	Dispersion Compensators	Interleaver	EDFA	Raman Amplifiers	SOA	Rx/Tx	Line Card	System Test	
Tunable Laser 81600B Options 132/140/142/150/160/200	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•				
Compact Tunable Laser 81980A/81940A/81989A/81949A					•			•	•	•	•	•	•	•	•	•	•	•	•	
Distributed Feedback (DFB) Laser 81662A, 81663A														•	•	•			•	
Fabry-Perot Laser				•	•	•	•	•	•											
Power Meter 8163xB	•	•	•	•	•	•	•			•	•	•	•	•	•		•	•	•	
Optical Heads 8162xB						•		•	•	•	•	•	•				•	•	•	
Return Loss Modules 81610A, 81611A, 81612A 81613A			•	•	•	•	•	•	•	•	•	•	•	•						
Attenuator 81570A/71A/73A/75A/76A/77A														•	•	•	•	•	•	
Polarization Controller 8169A	•	•	•		•		•	•	•	•	•	•	•	•		•				
Polarization Controller 11896A						•			•	•	•	•	•	•	•					
Digital Communications Analyzer (DCA)																	•		•	
Bit Error Ratio Tester (BERT)																	•	•	•	
SONET/SDH Tester																		•	•	
Optical Spectrum Analyzer (OSA)	•	•	•					•			•		•	•	•	•	•	•	•	
Multi-Wavelength Meters																	•	•	•	
Mainframes 8163B 8164B 8166B	•	•	•	•	•		•	•	•	•	•			•	•	•	•	•	•	
All-Parameter Test	•	•	•						•	•	•	•	•							
Photonic Foundation Library	•	•	•		•	•	•	•	•	•	•		•							

For related literature please visit www.agilent.com/cm/rdmfg/oct/literature/octselection.pdf By internet, phone, or fax, get assistance with all your test & measurement needs

For further information, please visit www.agilent.com/comms/lightwave

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Product specifications and descriptions in this document subject to change without notice.

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