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Agilent Optical Amplifier Test System

E2156A



Agilent Technologies' Customizable Optical Amplifier Test System.

The Agilent E2156A provides a fully integrated test system for optical amplifier (OA) manufacturers. The E2156A provides highly accurate measurements on an open, extensible platform that can be customized to meet user-specific needs.

Just Enough Test

OA manufacturers can configure the E2156A with just the right amount of test capabilities for budget-sensitive applications, and protect their investment by easily upgrading the system to meet new OA test requirements.

Users can work within a familiar software environment to easily change device test sequences, allowing manufacturers to remain cost-competitive while responding quickly to new technological and market requirements.

Manufacturers can stay cost competitive in the metro market by using our new solution for low-cost test of metro optical amplifiers. This is achieved through low system cost, test throughput optimization and support of low-cost OA technologies, including SOA, EDWA.

Key Benefits

The Agilent E2156A optical amplifier test system offers several benefits:

- reduced cost of test with one system that tests all OA technology devices
- versatility with Agilent's large variety of upgrades
- scalability and investment protection allowing users to purchase a minimum amount of test equipment and upgrade as necessary
- flexibility that lets users easily customize their system within an open software environment

The E2156A uses Agilent's industry leading optical measurement instrumentation. Our standard configuration measures Gain (G), Noise figure (NF) and other derived parameters. The system uses the interpolation with source subtraction (ISS) test method. The time domain extinction (TDE) is available as an option.

Manufacturing and R&D Environments

The Agilent E2156A is a fully automated, integrated turn-key solutions that provide flexibility, accuracy, and repeatability. The Optical Amplifier test system can be used in design verification, production test, or quality assurance and offers unbeatable performance capabilities.

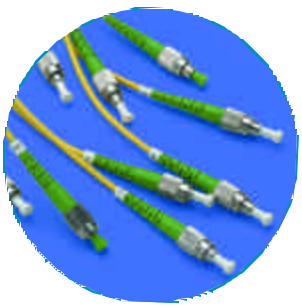
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Typical Characteristics

System Characteristics	
- Wavelength Range (w/C-TLS & L-TLS)	- 1525-1620 nm
- Wavelength Accuracy (measurement)	- 0.025 nm
- Maximum DUT Output Power	- 25 dBm (standard)
- DUT Output Power Measurement Accuracy	- +/- 0.16 dB
Gain and PDG Measurements	
- Gain Measurement Accuracy	- +/- 0.12 dB
- Gain Measurement Repeatability	- <0.02 dB typ. Standard deviation
- System Residual PDG (PDG accuracy)	- +/- 0.1 dB typ. - +/- 0.02 dB typ. enhanced (opt)
Noise Figure Measurements	
- NF Accuracy (ISS)	- +/- 0.3 dB
- NF Accuracy (TDE)	- +/- 0.19 dB
- NF Measurement Repeatability	- <0.02 dB typ. Standard deviation
Source Characteristics	
- Maximum WDM DUT Input Power (ISS)	- +11.8 dBm typ. 12 channel WDM - +14.8 dBm typ. 20 channel WDM
- DUT Input Power Set Accuracy	- +/- 0.1 dB
- DUT Input Power Set Repeatability	- <0.02 dB typ. Standard deviation
- Minimum WDM Source Channel Spacing	- 100 GHz (ISS), 50 GHz (TDE)
- Loss from Source Input to DUT Input	- 6.5 dB nom[1]
List of Measurements	
- Gain, Gain Flatness	- Total Output Power
- Noise Figure	- ASE Power
- PDG (optional)	- Signal Input Power
- Transients (optional)	- Signal Output Power
Environmental Conditions	
- Operating Temperature	- 10 to 35 C^0
- Storage Temperature	- -40 to 70 C^0
- Humidity	- 80% RH

Specifications exclude DUT connector effects

1. Base system without Polarization Controller and Multi-DUT switch





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