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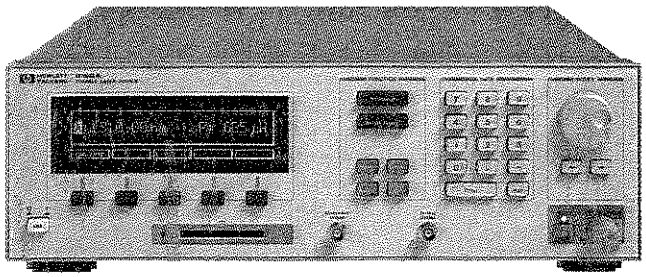
Find the *Keysight / Agilent 8168A* at our website: ***Click HERE***

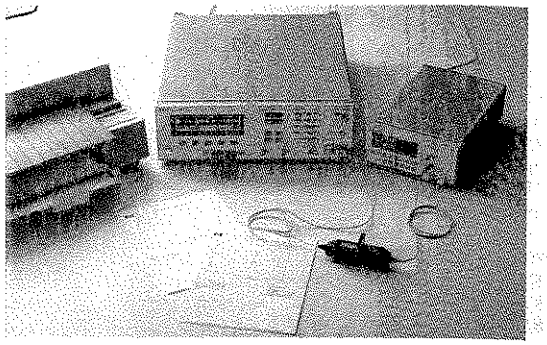
LIGHTWAVE TEST EQUIPMENT

Tunable Laser Sources/Passive Component Test System

HP 8167A/8168A, 81600 Series 100

- Single-mode operation at each wavelength
- Accurate and fast tuning
- Independent control of power and wavelength
- Easily ordered bundles to measure component loss as a function of wavelength
- Measurement and documentation capabilities available without computer
- Measurement routines to measure loss, return loss and coupling ratios automatically





HP 8167A and 8168A Tunable Laser Sources

The HP 8167A and 8168A tunable laser sources are basic tools for characterizing and testing optical amplifiers and components. The HP 8167A addresses the 1300 nm transmission window; the HP 8168A operates in the 1550 nm window. A built-in side mode filter ensures that a true single-mode laser line is generated for every wavelength point, eliminating any possible multimoding. A 0.001 nm resolution also makes these tunable lasers valuable tools for heterodyne measurements and coherent applications. Both tunable lasers provide independent control of output power and wavelength on a what-you-set-is-what-you-get basis. Therefore, the user does not need to monitor values with additional instruments. Wavelength scans, which require an output power that is stable over time and flat across all wavelengths, can be performed reliably, accurately, and quickly. In manufacturing applications, the instruments can be integrated into a fully automated production-test environment for precise, repeatable high-speed testing.

For more information, refer to the *Lightwave Test and Measurement Catalog* and the data sheet.

Specifications

	HP 8167A	HP 8167A Option 003	HP 8168A	HP 8168A Option 003
Wavelength range	1280 nm to 1330 nm		1500 nm to 1565 nm	
Absolute wavelength accuracy	< ±0.1 nm			
Relative wavelength accuracy	±0.05 nm (typical: ±0.02 nm)			
Wavelength resolution	0.001 nm, 170 MHz at 1300 nm		0.001 nm, 125 MHz at 1550 nm	
Wavelength stability (typical over 1 h at constant temp.)	< ±100 MHz			
Wavelength repeatability	±0.05 nm (typical: ±0.02 nm)			
Sidemode suppression ratio	> 40 dB			
Linewidth (typical)	< 100 kHz			
Tuning speed (typical) (for a 1 nm/10 nm/100 nm step)	150 ms (250 ms with Option 003/300 ms/2s			
Total power range	> −4 dBm to −10 dBm	> −5.5 dBm to −50 dBm	> −4 dBm to −10 dBm	> −6.5 dBm to −50 dBm

Ordering Information — Price

One connector option (Option 021, 022, or 023) must be ordered with each tunable laser source. Options 003 and 022 are retrofittable; contact your HP service location for more details.

HP 8167A/68A Tunable Laser Source

Available Options (HP 8167A and 8168A)

Opt 021 Straight Contact Output Connector
Opt 022 Angled Contact Output Connector
Opt 023 Diamond HMS-10/HP/HRL Output Connector (angled, non-contact connector; one HP 81000AI included)
Opt 001 Scalar Device Analysis Software
Opt 003 Built-In Variable Attenuator
Opt 0B2 Additional Operating Manual
Opt 1CM Rack Mount Kit
Opt 1CN Handle Kit

HP 81600 Series 100 Passive Component Test System

For manufacturers and users of passive optical components, the HP 81600 Series 100 is the ideal solution for faster, easier device characterization over wavelength.

The Series 100 consists of different bundles, including a tunable laser source, a lightwave multimeter, a printer, all accessories required, and built-in application software, which eliminates the need for an external computer.

Depending on the configuration selected, single- or dual-channel loss, return loss and coupling ratio measurements can be performed around 1300 nm or 1550 nm on pigtailed or connectorized devices.

Full data postprocessing capabilities ensure complete result documentation and data exchange via HP-IB or memory card. All system components are carefully calibrated and offer excellent specifications. This reduces test margins and thus increases the yield.

Ordering Information* — Price

HP E4325A 1-Channel Loss Test Set, 1280 to 1330 nm, PC Connector — $73,900
HP E4326A 1-Channel Loss Test Set, 1500 to 1565 nm, PC Connector — $73,900
HP E4327A 1-Channel Loss Test Set, 1280 to 1330 nm, Pigtails — $77,700
HP E4328A 1-Channel Loss Test Set, 1500 to 1565 nm, Pigtails — $77,700
HP E4329A 2-Channel Loss Test Set, 1280 to 1330 nm, PC Connector — $77,700
HP E4330A 2-Channel Loss Test Set, 1500 to 1565 nm, PC Connector — $77,700
HP E4331A 2-Channel Loss Test Set, 1280 to 1330 nm, Pigtails — $85,400
HP E4332A 2-Channel Loss Test Set, 1500 to 1565 nm, Pigtails — $85,400
HP E4333A 1-Channel Loss/Return Loss Test Set, 1280 to 1330 nm, PC Connector — $81,300
HP E4334A 1-Channel Loss/Return Loss Test Set, 1500 to 1565 nm, PC Connector — $81,300

*For more information, please refer to data sheet 5091-6668L.

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