

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8168F

The Keysight (Agilent HP) 8168F is a high-performance tunable laser source operating in the 1550 nm band (1450 nm to 1590 nm range). Engineered for demanding optical component testing, it features a built-in sidemode filter to guarantee true single-mode operation across its entire tuning range. It allows independent control of output power and wavelength, enabling stable and flat wavelength scans. Its versatile sweep and modulation capabilities make it ideal for characterization of passive and active optical devices.

SPECIFICATIONS

General

Warm-up Time	1 hour (for maximum accuracy)
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Physical

Operating Temperature	0 °C to +55 °C °C
Weight	16.5 kg kg

Wavelength Characteristics

Wavelength Range	1450 nm to 1590 nm
Wavelength Tuning Resolution	0.001 nm (125 MHz at 1550 nm)

Optical Output Power

Peak Output Power (Typical)	+8 dBm
Output Power (1520 to 1570 nm)	> +7 dBm
Output Power (1475 to 1575 nm)	> 1 dBm
Output Power (1450 to 1590 nm)	> -7 dBm

Spectral Purity

Spectral Linewidth (Typical)	100 kHz
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Optical Performance

Laser Type	External Cavity Diode Laser (ECDL)
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Outputs

Optical Fiber Type	Polarization maintaining fiber (Panda-type, Option 071/072) or Standard single-mode fiber (Option 021/022)
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TECHNOLOGY

Tunable External Cavity Semiconductor Laser

APPLICATIONS

Optical Component Testing and Characterization

