

KEYSIGHT TECHNOLOGIES (AGILENT HP)

81689A

The Keysight (Agilent) 81689A is a compact tunable laser source module optimized for the C-band (1525 nm to 1575 nm). Specifically engineered for dense-WDM (DWDM) passive component tests and multi-channel DWDM transmission system testing, it supports continuous sweep capabilities and delivers excellent stability, power linearity, and high spectral purity.

SPECIFICATIONS

General

Interfaces	Mainframe-dependent (GPIB, LAN, USB depending on host mainframe)
Display	None (uses mainframe display)

Physical

Power Supply	Powered directly via mainframe slot
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Optical Performance Specifications

Wavelength Range	1525 nm to 1575 nm
Wavelength Resolution	0.01 nm (1.25 GHz at 1550 nm)
Maximum Output Power	≥ 6 dBm (1525 - 1575 nm, continuous power on during tuning)

Physical and Platform Compatibility

Mainframe Compatibility	Keysight (Agilent) 8163A/B, 8164A/B, 8166A/B Lightwave mainframes
Number of Slots Required	1 slot

Configuration and Ordering Options

Fiber Type Options	Option 071 (PM Panda fiber) / Option 072 (Standard Single-mode fiber)
Connector Interface compatibility	Agilent/Keysight 81000xl interchangeable connector adapters (e.g. FC, SC, LC, ST)

Design

Laser Cavity Type	External cavity laser (ECL)
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TECHNOLOGY

Tunable External Cavity Laser (ECL)

APPLICATIONS

C-band DWDM passive component test and multi-channel test beds

