KEYSIGHT TECHNOLOGIES (AGILENT HP)

70810B

The Keysight (Agilent/HP) 70810B is a high-performance lightwave receiver module designed for the HP 70000 Modular Measurement System (MMS). Operating over a wide optical wavelength range and RF frequency span, it serves as a precise optical-to-electrical converter for signal analysis and optical component characterization.

SPECIFICATIONS

General

Interfaces	HP-MSIB (Modular System Interface Bus)
Display	No integrated display (requires HP 70004A or compatible MMS mainframe display)

Physical

Power Supply	Powered directly through the HP 70000 series mainframe backplane
Operating Temperature	0 to 55 °C °C
Dimensions (W×H×D)	48.4 mm × 138.1 mm × 520.7 mm mm

System Compatibility and Architecture

Module Type	Lightwave Receiver Module
Compatible Mainframe Series	HP 70000 Series MMS
Slot Width Requirement	1 slot

Optical Specifications

Wavelength Range	1200 nm to 1600 nm
Photodetector Material	InGaAs
Maximum Safe Optical Input Power	+10 dBm average, +16 dBm peak
Compatible Fiber Type	9/125 µm single-mode

RF and Electrical Performance

Frequency Range	100 kHz to 22 GHz
Bandwidth (3 dB)	100 kHz to 22 GHz
Output Impedance	50 Ω

Front and Rear Panel Connections

RF Output Connector	APC-3.5

Optical Interface

Optical Connector Options	Option 011 (HMS-10), Option 012 (FC/PC), Option 013 (DIN 47256), Option 014 (ST), Option 017 (SC)

TECHNOLOGY

Lightwave / RF Optoelectronics

APPLICATIONS

Optical-to-electrical conversion, Lightwave Signal Analysis

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.