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Data Sheet

August 13, 2026

JDS UNIPHASE

JDS Uniphase SWS15107 High Accuracy Detector 2 ports / module

JDSU / VIAVI SWS15107 High Accuracy Detector Module (2 Ports/Module) The JDSU (VIAVI) SWS15107 is a high-performance dual-port optical detector module for the Swept Wavelength System (SWS2000) and related Environmental Test System (OCETS) receiver architectures. It installs in the OWB10002 Optical Workbench / 9-slot receiver chassis class and measures insertion loss, polarization-dependent loss, and related swept-wavelength parameters at high wavelength resolution and dynamic range. The high-accuracy A-version (SWS15107-A) is associated with PDL accuracy better than about ± 0.01 dB in family literature. Typically ships with FC optical interfaces. The JDSU (VIAVI) SWS15107 is a high-performance dual-port optical detector module for the Swept Wavelength System (SWS2000) and related Environmental Test System (OCETS) receiver architectures. It installs in the OWB10002 Optical Workbench / 9-slot receiver chassis class and measures insertion loss, polarization-dependent loss, and related swept-wavelength parameters at high wavelength resolution and dynamic range. The high-accuracy A-version (SWS15107-A) is associated with PDL accuracy better than about ± 0.01 dB in family literature. Typically ships with FC optical interfaces. Swept-wavelength insertion loss characterization; high-accuracy PDL measurement on multi-channel devices; OCETS environmental optical component test; distribute



MODEL

**JDS Uniphase
SWS15107**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

SWS15107

LISTING

<https://aumictechlabs.com/products/sws15107-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The JDS Uniphase SWS15107 is a high-accuracy detector module designed for integration into optical test and measurement systems. This two-port receiver module delivers precise optical power measurements within swept wavelength systems and environmental test platforms. It enables characterization of passive optical components and fiber across C-band, L-band, and C+L band operations, making it essential for insertion loss, polarization dependent loss (PDL), and return loss measurements in laboratory and manufacturing environments.

Technical Specifications
Product Type: High Accuracy Detector Module
Ports: 2 ports per module
Operational Bands: C-band, L-band, and C+L band
Optical Connector: FC/APC interface (fixed connector on PDL-optimized variants)
System Wavelength Accuracy (SWS Context): ± 0.002 nm over 1420–1630 nm range
System Sweep Speed (SWS Context): 20 nm/s

Key Features
High-accuracy optical power detection for swept wavelength systems
PDL measurement capability with select variants achieving ± 0.01 dB accuracy or better
Compatible with OWB10002 Receiver Chassis architecture
Designed as a modular receiver component for integration into mainframe chassis systems
Supports fast sweep rates and precise wavelength tracking in automated test configurations

Typical Applications
Optical component and fiber characterization
Insertion loss measurement
Polarization dependent loss (PDL) analysis
Return loss measurement
Passive component validation in manufacturing and R&D environments

Compatibility & Integration
The SWS15107 integrates with JDS Uniphase swept wavelength systems including the SWS15100, SWS16100, SWS1700, and SWS2000 series. It is also compatible with any system utilizing the OWB10002 Receiver Chassis, enabling flexible deployment across multiple measurement platforms.

Features & description

From manufacturer datasheet

Features

- High-accuracy detector for SWS2000 / OCETS

SWS15107 Characteristics / Specifications

PARAMETER	VALUE
Model	SWS15107
Manufacturer	JDS Uniphase / VIAVI Solutions
Instrument Type	High-accuracy optical detector module (2 ports)
Ports per Module	2
Host Platform	SWS2000 Swept Wavelength System
Related Chassis	OWB10002 Optical Workbench receiver chassis
Chassis Slot Class	9-slot receiver chassis family
Primary Measurements	Insertion loss (IL); polarization dependent loss (PDL); return loss class
Architecture	Distributed SWS (shared TLS to up to about 8 independent stations)
Optical Interface	FC (common shipped configuration)
Product Family	SWS15107; SWS-15107; SWS 15107
Related Detector	SWS15106
Alias	SWS15107; JDSU SWS15107; VIAVI SWS15107
Use Domain	DWDM / passive optical component characterization
Form	Plug-in detector cassette for receiver chassis
Typical Ship Weight Class	about 3 lb (reseller) Notes Specs from JDSU/VIAVI SWS2000 / SWS15107 product descriptions. Confirm SWS15107 vs SWS15107-A accuracy class and installed connector type on the module faceplate.
Related modules	SWS15106 family detectors
Wavelength resolution	and dynamic range. The high-accuracy A-version (SWS15107-A) is associated with PDL accuracy better than about +/-0.01 dB in family literature. Typically ships with FC optical interfaces.
Return loss	class

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Model	SWS15107
Manufacturer	JDS Uniphase / VIAVI Solutions
Instrument Type	High-accuracy optical detector module (2 ports)
Ports per Module	2
Host Platform	SWS2000 Swept Wavelength System
Related Chassis	OWB10002 Optical Workbench receiver chassis
Chassis Slot Class	9-slot receiver chassis family
Primary Measurements	Insertion loss (IL); polarization dependent loss (PDL); return loss class
Architecture	Distributed SWS (shared TLS to up to about 8 independent stations)
Optical Interface	FC (common shipped configuration)
Product Family	SWS15107; SWS-15107; SWS 15107
Related Detector	SWS15106
Alias	SWS15107; JDSU SWS15107; VIAVI SWS15107
Use Domain	DWDM / passive optical component characterization
Form	Plug-in detector cassette for receiver chassis
Typical Ship Weight Class	about 3 lb (reseller) Notes Specs from JDSU/VIAVI SWS2000 / SWS15107 product descriptions. Confirm SWS15107 vs SWS15107-A accuracy class and installed connector type on the module faceplate.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

performance dual-port optical detector module for the Swept Wavelength System (SWS2000) and related Environmental Test System (OCETS) receiver architectures. It installs in the OWB10002 Optical Workbench / 9-slot receiver chassis class and measures insertion loss, polarization-dependent loss, and related swept-wavelength parameters at high wavelength resolution and dynamic range. The high-accuracy A-version (SWS15107-A) is associated with PDL accuracy better than about +/-0.01 dB in family literature. Typically ships with FC optical interfaces.

Applications

Swept-wavelength insertion loss characterization; high-accuracy PDL measurement on multi-channel devices; OCETS environmental optical component test; distributed SWS2000 stations sharing one tunable laser source.

Key Features

- High-accuracy detector for SWS2000 / OCETS
- 2 optical ports per module
- Measures IL, PDL, and related swept parameters
- Installs in OWB10002 / 9-slot receiver chassis
- FC optical interface common on units
- High-accuracy A-version for PDL better than about +/-0.01 dB
- Supports distributed architecture (one TLS to multiple stations)
- Related modules: SWS15106 family detectors

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	SWS15107
Manufacturer	JDS Uniphase / VIAVI Solutions
Instrument Type	High-accuracy optical detector module (2 ports)

Specifications

PARAMETER	VALUE
Ports per Module	2
Host Platform	SWS2000 Swept Wavelength System
Related Chassis	OWB10002 Optical Workbench receiver chassis

Chassis Slot Class: 9-slot receiver chassis family

Primary Measurements: Insertion loss (IL); polarization dependent loss (PDL); return loss class

PDL Accuracy Class (SWS15107-A): better than about +/-0.01 dB (family literature)

Specifications

PARAMETER	VALUE
Architecture	Distributed SWS (shared TLS to up to about 8 independent stations)
Optical Interface	FC (common shipped configuration)
Product Family	SWS15107; SWS-15107; SWS 15107

Specifications

PARAMETER	VALUE
Related Detector	SWS15106
Alias	SWS15107; JDSU SWS15107; VIAVI SWS15107
Use Domain	DWDM / passive optical component characterization

Form: Plug-in detector cassette for receiver chassis

Typical Ship Weight Class: about 3 lb (reseller)

Notes

Specs from JDSU/VIAVI SWS2000 / SWS15107 product descriptions. Confirm SWS15107 vs SWS15107-A accuracy class and installed connector type on the module faceplate.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.