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Data Sheet

August 13, 2026

JDS UNIPHASE

JDS Uniphase COSA-4055

The JDS Uniphase COSA-4055 is a compact optical subassembly (COSA) designed for high-performance optical transceivers. It integrates essential optical components to facilitate efficient light transmission and reception in optical communication systems. Ideal for applications requiring miniaturization and high signal integrity.

**MODEL****JDS Uniphase
COSA-4055****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****COSA-4055****LISTING**<https://aumictechlabs.com/products/cosa-4055-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The COSA-4055 is a handheld CWDM Optical Spectrum Analyzer module designed for installation, maintenance, and network upgrades. It delivers complete spectral analysis in under 4 seconds, integrating full OSA functionality into a portable form factor compatible with T-BERD/MTS-2000 and T-BERD/MTS-4000 platforms. The module operates across the 1260 to 1625 nm wavelength range with -55 to +10 dBm measurement capability, making it a cost-effective solution for metro and access network testing. Technical Specifications Wavelength range: 1260 to 1625 nm Dynamic range: -55 to +10 dBm Noise floor: -55 dBm Level accuracy: ± 0.5 dB Level linearity: ± 0.1 dB Resolution bandwidth: 4 nm Optical return loss: > 35 dB Scan time: < 4 seconds Display: 7-inch TFT color Operating temperature: -5 to $+50^{\circ}\text{C}$ Storage temperature: -20 to $+60^{\circ}\text{C}$ Module dimensions: $128 \times 134 \times 40$ mm Module weight: 0.35 kg Key Features ITU-T G.695 and G.674.2 compliant Tunable channel grid supporting ITU-T G.694.2 CWDM wavelengths and

custom grids Complete spectral trace with tabular power and wavelength results Zoom and marker functions for detailed analysis Wavelength and power drift measurement Automatic channel detection and pass/fail analysis against user-settable limits Optional SFP bay (version 2301/02) hosts up to 2 SFP CWDM transceivers for insertion loss testing and end-to-end link continuity verification Multiple optical connectors: FC/PC, SC, ST, DIN, LC Typical Applications Metro and access network performance verification CWDM network maintenance and troubleshooting Spectral and drift testing of CWDM sources Vendor compatibility assessment Insertion loss testing with simulated CWDM transmitters End-to-end continuity checks in mux/demux and OADM networks Compatibility & Integration The module integrates directly into T-BERD/MTS-2000 and T-BERD/MTS-4000 platforms, eliminating the need for standalone test equipment in field operations.

Features & description

From manufacturer datasheet

Features

- Full-band CWDM OSA in handheld modular form factor
- Complete spectral trace plus channel table in less than 4 s
- Power and wavelength drift application
- ITU-T G.694.2 and customized grids
- Hosts up to two SFP CWDM transceivers

COSA4055 Characteristics / Specifications

PARAMETER	VALUE
Model	COSA-4055
Manufacturer	VIAVI Solutions (JDSU)
Instrument Type	CWDM optical spectrum analyzer module
Part Number	2301/02
Host Platforms	T-BERD/MTS-2000; MTS-4000 V2; MTS-5800; OneAdvisor-800
Alias	JDSU COSA-4055; VIAVI COSA-4055
Operating Modes	CWDM; drift
Display Modes	graph; CWDM table; graph plus table
Wavelength Range	1260 nm to 1625 nm
Wavelength Accuracy	plus/minus 0.5 nm (at 23 plus/minus 5 C)
Readout Resolution Wavelength	0.001 nm
Resolution Bandwidth FWHM Typical	4 nm
Minimum Channel Spacing	8 nm (two channels at equal power)
Dynamic Range	-55 to +10 dBm
Noise Floor RMS	-55 dBm
Absolute Power Accuracy Typical	plus/minus 0.5 dB (at -6 dBm on CWDM grid including PDL)
Linearity	plus/minus 0.1 dB (-45 to +5 dBm at 23 C)
Readout Resolution Power	0.01 dB
Scanning Time	less than 4 s
Input Port	SM/PC
Switchable Adapters	FC SC LC ST
Optical Return Loss	greater than 35 dB
Total Safe Power	+15 dBm
SFP Bay	up to two SFP transceivers (not included)
Measurement Parameters	channel number; power; wavelength; drift

PARAMETER	VALUE
Standards Alignment	ITU-T G.694.2; G.695; G.674.2 class compliance claims
Net Weight	0.35 kg (0.7 lb)
Dimensions	128 mm x 134 mm x 40 mm
Operating Temperature	-5 to +50 C
Storage Temperature	-20 to +60 C
Supplied Adapters Class	SC mounted plus FC spare (per ordering note)
Related Application Software	EOFS100; EOFS200
Bandwidth	FWHM Typical: 4 nm
Return loss	greater than 35 dB

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	20 to +60 C
Operating temperature	5 to +50 C
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Supplied Adapters Class	SC mounted plus FC spare (per ordering note)
Related Application Software	EOFS100; EOFS200 Notes Specs from VIAVI COSA-4055 CWDM OSA module data sheet (cosa-ds-fop-tm-ae / 30162972). Confirm host platform firmware and installed optical adapter before field use.

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.

Specifications	
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Operating Temperature	-5 to +50 C
Storage Temperature	-20 to +60 C
Supplied Adapters Class	SC mounted plus FC spare (per ordering note)
Related Application Software	E0FS100; E0FS200

Notes

Specs from VIAVI COSA-4055 CWDM OSA module data sheet (cosa-ds-fop-tm-ae / 30162972). Confirm host platform firmware and installed optical adapter before field use.

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.