

**Aumictech**

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Data Sheet

August 15, 2026

KEOPSYS/OPTOCOM INNOVATION

Keopsys / Optocom Innovation KPS-BT2-C-18-WDM-LN-SD-FA

The Keopsys KPS-BT2-C-18-WDM-LN-SD-FA is a C-band fiber optic amplifier engineered for optical communication systems and precision measurement applications demanding high signal integrity. This benchtop module integrates WDM technology with a low-noise design to deliver consistent performance across demanding operational profiles. The unit accepts input signals from -15 dBm to 0 dBm and produces 18 dBm saturated output power with greater than 20 dB small signal gain. Noise figure remains below 5 dB, while gain variation stays under 1.5 dB across the operating range. Polarization-dependent gain is suppressed to less than 0.5 dB, and polarization mode dispersion is below 1 ps. Automatic power control and automatic current control optimize performance without manual adjustment. FC/APC optical connectors and GPIB control interface enable straightforward system integration. Aumictech offers



MODEL

**Keopsys/Optocom
Innovation KPS-
BT2-C-18-WDM-
LN-SD-FA**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

**KPS-BT2-C-18-
WDM-LN-SD-FA**

LISTING

[https://aumictechlabs.c
om/products/kps-bt2-c
-18-wdm-ln-sd-fa-2/](https://aumictechlabs.com/products/kps-bt2-c-18-wdm-ln-sd-fa-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

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Technical Specifications

Wavelength Region:	C-band, 1529 – 1565 nm
Optical bandwidth	Saturated Output Power: 18 dBm
Input Optical Power:	-15 dBm to 0 dBm
Small Signal Gain:	>20 dB
Noise Figure:	<5 dB
Gain Variation:	<1.5 dB
Polarization-Dependent Gain:	<0.5 dB
Polarization Mode Dispersion:	30 dB
Return Loss:	<-40 dB
AC Voltage:	85 – 264 V
Power Consumption:	30 – 100 W (model dependent)
Operating Temperature:	$+18$ °C to $+35$ °C
Storage Temperature:	-20 °C to $+55$ °C

Key Features

- Automatic power control and automatic current control
- Low-noise amplification with 30 dB optical isolation
- GPIB control interface for system automation
- Minimal gain ripple and polarization-dependent effects

Typical Applications

- Preamplification and in-line amplification
- Optical component testing
- Atomic cooling and spectroscopy
- Quantum optics and non-linear optics
- Microwave optics and nanotechnology research

Compatibility & Integration

The KPS-BT2-C-18-WDM-LN-SD-FA operates within standard C-band communication windows and integrates into laboratory and field systems via FC/APC optical connectors and industry-standard GPIB control. Standard single-mode fiber compatibility ensures reliable operation in diverse optical architectures.

KPSBT2C18WDMLNSDFA Characteristics / Specifications

PARAMETER	VALUE
Model	KPS-BT2-C-18-WDM-LN-SD-FA
Instrument Type	Benchtop C-band EDFA
Wavelength Band	1529 to 1565 nm C-band
Low Noise Bandwidth Class	1535 to 1565 nm on related C-18 LN listings
Output Power Class	18 dBm (C-18)
Family Saturation Max	37 dBm on KPS-BT2-C high power builds
Control Modes	automatic power control APC and automatic current control ACC
Pump Technology	Keopsys VSP Vgroove side pumping
Remote Interface	GPIO; RS232 class on BT-C benchtop
Optical Connectors	FC/APC (FA)
Optical Path	WDM and SD as coded in the model
Noise Class	LN low noise
Monitor Diodes	input and output monitor photodiodes on C-18 LN companions
Form Factor	microprocessor controlled benchtop
Manufacturer	Keopsys Optocom Innovation
Literature	Keopsys KPS-BT-C and KPS-BT2-C fiber amplifier listings plus C-18 LN companion specs
Family	KPS-BT2-C benchtop EDFAs
Brand Lineage	Optocom Innovation Keopsys
System Role	C-band optical amplifier
Alarms	managed alarms and status indicators
Input Range Class	specified input signal power range for APC/ACC
Connector Class	FA FC/APC
Gain Class	WDM flattened path on WDM-coded builds
Power Class	18 dBm rated C-18
Band Class	C-band EDFA

PARAMETER	VALUE
Bandwidth	Class: 1535 to 1565 nm on related C-18 LN listings

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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Control Modes	automatic power control APC and automatic current control ACC
Pump Technology	Keopsys VSP Vgroove side pumping
Remote Interface	GPIB; RS232 class on BT-C benchtop
Optical Connectors	FC/APC (FA)
Optical Path	WDM and SD as coded in the model
Noise Class	LN low noise
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Notes

Numeric rows from Keopsys KPS-BT-C/KPS-BT2-C family listings (1529 to 1565 nm, 37 dBm family max, 18 dBm C-18) and KPS-BT-C-18-LN-FA companion (18 dBm, 1535 to 1565 nm). Noise figure, gain flatness, and exact SD optics are on the KPS-BT2-C-18-WDM-LN-SD-FA configuration sheet.

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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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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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.