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Data Sheet
August 3, 2026

THORLABS

ThorLabs ASE-FL7002-C4 High-Stability Broadband Multichannel ASE Source

Instrument Type: Four-Channel Broadband ASE Source Related Model: ASE-FL7002 (series / non-C4 configurations) Stabilize before precision stability tests. Confirm each channel’s output level independently. Use matching FC/PC patch cords and observe ASE eye-safety practices. C4 denotes the four-channel ASE-FL7002 configuration–distinct from other ASE-FL7002 channel-count variants. Alias ASEFL7002C4. Related Model: ASE-FL7002 (series / non-C4 configurations) Stabilize before precision stability tests. Confirm each channel’s output level independently. Use matching FC/PC patch cords and observe ASE eye-safety practices. C4 denotes the four-channel ASE-FL7002 configuration–distinct from other ASE-FL7002 channel-count variants. Alias ASEFL7002C4.

MODEL ThorLabs ASE-FL7002-C4	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU ASE-FL7002-C4	LISTING https://aumictechlabs.com/products/ase-fl7002-c4-2/

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The ThorLabs ASE-FL7002-C4 is a high-stability broadband amplified spontaneous emission (ASE) source engineered for precision optical testing, measurement, and sensor validation. It delivers four independent channels of low-noise, spectrally rich output across the C and L bands via a single Er-doped fluoride fiber pumped by a laser diode. Exceptional power stability and

minimal intensity noise make it ideal for optical coherence tomography systems and optical component characterization requiring demanding performance margins.Technical Specifications Optical Output Wavelength range: 1530 nm to 1610 nm Bandwidth: >60 nm Number of outputs: 4 channels Output fiber: Single Mode (SMF28), FC/PC connectors Total output power: >13 dBm (20 mW) Individual channel power (typical): 7.2–7.8 dBm per channel Spectrum density (typical): >−18 dBm/nm @ 1530 nm and 1610 nm; >−11 dBm/nm @ 1540–1600 nm Performance Power stability: ±0.001 dB typical over 15 minutes; ±0.005 dB maximum over 15 minutes Intensity noise: Low Wavelength stability: Exceptional Electrical & Physical Input power: 100–240 V AC, 50/60 Hz Dimensions: 43.2 cm (W) × 8.9 cm (H) × 40.6 cm (D) Weight: 6.8 kg Cooling: Air-cooledKey Features Four independent single-mode outputs with matched spectral coverage Flat broadband spectrum spanning 80 nm across telecom bands Sub-millidecibel power stability over 15-minute intervals Compact benchtop form factor with standard mains powerTypical Applications Optical coherence tomography (OCT) system development and validation Broadband component testing and wavelength-dependent characterization Sensor network prototyping and multipoint optical measurement systems Calibration and reference standards for spectral measurement instrumentsCompatibility & Integration Single-mode SMF28 fiber with FC/PC connectors enables direct integration into standard fiber-optic benches and automated test systems. Air-cooled operation requires no additional chilled water or cryogenic infrastructure.

Features & description

From manufacturer datasheet

Features

• Four ASE/laser outputs (C4 configuration) • Wavelength range 1530 to 1610 nm • Total output power >+13 dBm (20 mW) • Per-channel max power class approximately >7.5 to >8.5 dBm (channel-dependent) • Power stability ±0.001 dB typical / ±0.005 dB max (15 min) • Spectral density typical: >−18 dBm/nm @ 1530/1610 nm; >−11 dBm/nm @ 1540–1600 nm • Output fiber SMF-28; FC/PC interface • Dimensions approximately 88 × 230 × 352 mm

ASEFL7002C4 Characteristics / Specifications

PARAMETER	VALUE
Model	ASE-FL7002-C4
Manufacturer	Thorlabs
Instrument Type	Four-Channel Broadband ASE Source
Wavelength Range	1530 to 1610 nm
Channels	4
Total Output Power	>+13 dBm (20 mW)
Power Stability (Typical)	±0.001 dB
Power Stability (Max)	±0.005 dB
Output Fiber	SMF-28
Optical Interface	FC/PC
Related Model	ASE-FL7002 (series / non-C4 configurations)
Alias	ASE-FL7002-C4 Standard Operating Conditions Stabilize before precision stability tests. Confirm each channel’s output level independently. Use matching FC/PC patch cords and observe ASE eye-safety practices. Operational Notes
Spectral density typical	>−18 dBm/nm @ 1530/1610 nm; >−11 dBm/nm @ 1540–1600 nm
Power stability	±0.001 dB typical / ±0.005 dB max (15 min) - Spectral density typical: >−18 dBm/nm @ 1530/1610 nm; >−11 dBm/nm @ 1540–1600 nm - Output fiber SMF-28; FC/PC interface - Dimensions approximately 88 × 230 × 352 mm

ASEFL7002C4 Specifications

PARAMETER	VALUE
Key Features	- Four ASE/laser outputs (C4 configuration)
Technical Specifications	Model: ASE-FL7002-C4
Operational Notes	C4 denotes the four-channel ASE-FL7002 configuration—distinct from other ASE-FL7002 channel-count variants. Alias ASEFL7002C4.

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

Specifications

PARAMETER	VALUE
Model	ASE-FL7002-C4
Manufacturer	Thorlabs
Instrument Type	Four-Channel Broadband ASE Source
Wavelength Range	1530 to 1610 nm
Channels	4
Total Output Power	>+13 dBm (20 mW)
Power Stability (Typical)	±0.001 dB
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Output Fiber	SMF-28
Optical Interface	FC/PC
Related Model	ASE-FL7002 (series / non-C4 configurations)
Alias	ASE-FL7002-C4

Standard Operating Conditions
Stabilize before precision stability tests. Confirm each channel’s output level independently. Use matching FC/PC patch cords and observe ASE eye-safety practices.

Operational Notes
C4 denotes the four-channel ASE-FL7002 configuration–distinct from other ASE-FL7002 channel-count variants. Alias ASEFL7002C4.

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
788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
https://aumictechlabs.com

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