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Data Sheet

August 13, 2026

PHOTONETICS

PHOTONETICS TUNICS-OM 3646 HE 15 LASER SOURCE MODULES w option p6

PHOTONETICS Tunable Laser Sources. Resolution: Better than 10 pm (0.01 nm typical),
Wavelength: dependent optical system performance assessment.



MODEL

**PHOTONETICS
TUNICS-OM 3646
HE 15**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

**TUNICS-OM 3646
HE 15**

LISTING

<https://aumictechlabs.com/products/tunics-om-3646-he-15-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The PHOTONETICS TUNICS-OM 3646 HE 15 with option P6 is a tunable laser source module for precision optical testing and component characterization. This high output power configuration delivers +6 dBm optical output with wavelength tunability across the C-band, supporting both analog and digital modulation for dynamic measurement scenarios. Technical Specifications
Wavelength Range: 1520 nm to 1570 nm Wavelength Resolution: Better than 10 pm (0.01 nm typical); optional 1 pm high-resolution available Optical Output Power (Option P6): +6 dBm (approximately 4 mW) Optical Power Stability: ± 0.01 dB Side Mode Suppression Ratio: >45 dB (typical) Relative Intensity Noise: >145 dB/Hz (typical) Output Isolation: 35 dB Return Loss: 60 dB Fiber Output: SMF-28™, FC/APC connector Analog Modulation: 150 Hz to 1 GHz (external) Digital Modulation: 500 Hz to 1 MHz (internal or external) External Intensity Modulation: 10 kHz to 1 GHz

Control Interfaces: RS-232 C and IEEE-488.2 Operating Temperature: +15 to +30°C Power Supply: 100 to 240 V, 50 to 60 Hz (autoselect)Key Features Fine wavelength tuning (0.01 nm steps) enables precise component testing across the C-band Excellent spectral purity with >45 dB side mode suppression and >145 dB/Hz RIN Dual modulation capability - analog and digital - supports diverse measurement protocols High return loss (60 dB) and output isolation (35 dB) minimize backreflection effects Modular $35 \times 130 \times 250 \text{ mm}^3$ form factor; up to 8 modules integrate into a single 19" rack chassisTypical Applications Component characterization (filters, couplers, amplifiers, detectors) Chromatic dispersion and PMD measurement Optical network validation and troubleshooting Wavelength-dependent optical system performance assessmentCompatibility & Integration The module operates as a standalone bench instrument or within a multi-module 19" mainframe platform ($448 \times 133 \times 370 \text{ mm}^3$; 16.1 kg for 8-module configuration). RS-232 C and IEEE-488.2 interfaces enable local control and remote automation within test racks.

Features & description

From manufacturer datasheet

Features

- TUNICS-OM 3646 HE 15 portable external-cavity laser

TUNICSOM3646HE15 Characteristics / Specifications

PARAMETER	VALUE
Model	TUNICS-OM 3646 HE 15
Manufacturer	Photonetics
Instrument Type	Portable Manually Tunable Laser
Series	TUNICS-OM
Alias	TUNICS-OM; TUNICS-OM 3646 HE 15; 3646HE15; TUNICS-OM 1540; TUNICS-OM 1560
OM 1540 Window	1500-1570 nm
OM 1560 Window	1530-1600 nm
Other Listed Windows	1520-1600 nm; 1540-1590 nm; 1540-1580 nm on TUNICS-OM tables
Output Power Standard	greater than 0 dBm
Catalog P	high output power
ASE Option	ASE-noise-free 90 dB class
Fine Tune	16 nm per turn class
Sweep Example	10 s for 70 nm on OM sheets
Optical Connector	FC/APC
Form	compact modular portable generator
Tuning	manual
Related 36	Photonetics 3642HE15 same HE 15 optical class, different frame
Laser Type	external cavity tunable
Interface	rear remote/GPIB class on some OM frames; confirm
Safety	laser class on the TUNICS-OM label
Line	mains per the OM frame nameplate
Status	Photonetics / NetTest TUNICS-OM EOL
Documentation	Photonetics TUNICS-OM Series user manual Notes Specs from Photonetics TUNICS-OM user-manual tables (OM 1540/1560 windows, >0 dBm, P6/P10, FC/APC, 16 nm/turn). Confirm 3646 HE 15 vs 1540/1560 window on the faceplate.

TUNICSOM3646HE15 Specifications

PARAMETER	VALUE
Applications	Portable C-band source; DWDM filter alignment; multi-wavelength benchtop test.
Key Features	- TUNICS-OM 3646 HE 15 portable external-cavity laser
Technical Specifications	Model: TUNICS-OM 3646 HE 15

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	TUNICS-OM 3646 HE 15
Manufacturer	Photonetics
Instrument Type	Portable Manually Tunable Laser
Specifications	
PARAMETER	VALUE
Series	TUNICS-OM
Alias	TUNICS-OM; TUNICS-OM 3646 HE 15; 3646HE15; TUNICS-OM 1540; TUNICS-OM 1560
OM 1540 Window	1500-1570 nm
Specifications	
PARAMETER	VALUE
OM 1560 Window	1530-1600 nm
Other Listed Windows	1520-1600 nm; 1540-1590 nm; 1540-1580 nm on TUNICS-OM tables
Output Power Standard	greater than 0 dBm
Specifications	
PARAMETER	VALUE
Catalog P6	high output power
Catalog P10	high output power
ASE Option	ASE-noise-free 90 dB class
Specifications	
PARAMETER	VALUE
Fine Tune	16 nm per turn class
Sweep Example	10 s for 70 nm on OM sheets
Optical Connector	FC/APC

Specifications

PARAMETER	VALUE
Form	compact modular portable generator
Tuning	manual
HE 15	high-end 15 optical configuration string

Specifications

PARAMETER	VALUE
Related 3642	Photonetics 3642HE15 same HE 15 optical class, different frame
Laser Type	external cavity tunable
Interface	rear remote/GPIB class on some OM frames; confirm

Specifications

PARAMETER	VALUE
Safety	laser class on the TUNICS-OM label
Line	mains per the OM frame nameplate
Status	Photonetics / NetTest TUNICS-OM EOL

Documentation: Photonetics TUNICS-OM Series user manual

Notes

Specs from Photonetics TUNICS-OM user-manual tables (OM 1540/1560 windows, >0 dBm, P6/P10, FC/APC, 16 nm/turn). Confirm 3646 HE 15 vs 1540/1560 window on the 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.