

**Aumictech**

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Data Sheet

August 12, 2026

JDS UNIPHASE

JDS Uniphase RM3 Backreflection Meter RM3750+1FA7 1310/1550

JDS Uniphase Fiber Characterization Systems. Power Range: 0 to -80 dBm, Accuracy: ± 0.4 dB for -60 dB to -67 dB readings, Accuracy: ± 0.1 dB between 0–3 dBm.



MODEL

**JDS Uniphase
RM3750+1FA7**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

RM3750+1FA7

LISTING

<https://aumictechlabs.com/products/rm3750-1fa7-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The JDS Uniphase RM3750+1FA7 is a dual-wavelength backreflection meter for single-mode fiber characterization. It measures backreflection, insertion loss, and optical power across 1310 nm and 1550 nm with direct display output and field portability via internal rechargeable battery. The instrument delivers backreflection accuracy to -75 dB and power measurement to -80 dBm, supporting component testing, system verification, and field service environments through an FC/APC connector interface.

Technical Specifications

Wavelengths: 1310 nm and 1550 nm

Fiber Type: Single-mode

Backreflection Range: 0 to -75 dB

Power Range: 0 to -80 dBm

Backreflection Accuracy: ± 0.4 dB for -60 dB to -67 dB readings ± 0.8 dB for -67 dB to -72 dB readings ± 1.5 dB for -72 dB to -75 dB readings

Accuracy in final 10 dB dependent on termination effectiveness

Power Accuracy: ± 0.1 dB between 0–3 dBm ± 0.1 dB between -35 dBm and -40 dBm ± 0.1 dB between -70 dBm and -80 dBm

Output Connector: FC/APC ultra-low backreflection Light

Sources: Dual internal laser sources at 1310 nm and 1550 nm
Key Features Direct digital display for backreflection, power, and insertion loss readings Internal rechargeable battery for portable field operation Data logging via foot pedal to computer or serial printer (RS-232) User-adjustable calibration for backreflection, loss, and power measurements Extraneous backreflection compensation Hybrid jumper compatibility for multi-connector testing Annual recalibration by JDS Uniphase recommended
Typical Applications Optical fiber component backreflection testing Manufacturing quality control for fiber jumper assemblies Single-output-port measurement in jumper manufacturing workflows Optical system performance verification and acceptance testing Research and development requiring precision optical measurements Field service diagnostics and troubleshooting
Compatibility & Integration RS-232 port enables remote instrument control and automated data acquisition. FC/APC connector design accommodates hybrid jumpers for extended connector-type compatibility without degrading backreflection measurement performance.

Features & description

From manufacturer datasheet

Features

• Wavelengths (this config): 1310 / 1550 nm (± 10 nm class) • Fiber class: single-mode 9/125 μm typical for this SKU family • Connector option: FC/APC (FA code) • Backreflection range (SM 9/125): 0 to -75 dB • Relative accuracy backreflection (SM): ± 0.7 dB class • Detector: 2 mm InGaAs (SM) / 3 mm InGaAs (MM tables) • Power range (SM): 0 to -80 dBm • Absolute power accuracy: ± 0.25 dB typical at -10 dBm • Relative power accuracy: ± 0.05 dB (< 5 dB loss); ± 0.15 dB (> 5 dB loss) • Display: 16-character LCD • Remote: RS232 (GPIB optional via converter) • Power: 100–240 VAC, 50–60 Hz; ~ 25 –30 VA max • Size: 26 × 11 × 26 cm; weight 4 kg • Operating temp: 0 to 40 °C

Applications

• Connector and component backreflection (ORL) measurement • Insertion loss and optical power measurement • Single-mode fiber component qualification

RM37501FA7 Characteristics / Specifications

PARAMETER	VALUE
Model	RM3750+1FA7
Manufacturer	JDS Uniphase
Instrument Type	Backreflection Meter
Alias	RM3750; RM3750+1FA7; JDSU RM3750
Wavelengths	1310 / 1550 nm
Backreflection range SM	0 to -75 dB
Power range SM	0 to -80 dBm
Detector	2 mm InGaAs (SM) / 3 mm InGaAs (MM tables)
Connector	FC/APC
Weight	4 kg Notes Specs from JDSU RM3xxx Backreflection Meter specification sheet; wavelength/connector decoded from +1FA7 ordering (1310/1550, FC/APC). Confirm fiber code and sources on the faceplate.
Wavelengths (this config)	1310 / 1550 nm (± 10 nm class)
Fiber class	single-mode 9/125 μ m typical for this SKU family
Connector option	FC/APC (FA code)
Backreflection range (SM 9/125)	0 to -75 dB
Relative accuracy backreflection (SM)	± 0.7 dB class
Power range (SM)	0 to -80 dBm
Absolute power accuracy	± 0.25 dB typical at -10 dBm
Relative power accuracy	± 0.05 dB (<5 dB loss); ± 0.15 dB (>5 dB loss)
Display	16-character LCD
Remote	RS232 (GPIB optional via converter)
Power	100-240 VAC, 50-60 Hz; ~25-30 VA max
Size	26 × 11 × 26 cm; weight 4 kg
Operating temp	0 to 40 °C

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	RM3750+1FA7
Manufacturer	JDS Uniphase
Instrument Type	Backreflection Meter
Alias	RM3750; RM3750+1FA7; JDSU RM3750

Specifications

PARAMETER	VALUE
Wavelengths	1310 / 1550 nm
Backreflection range SM	0 to -75 dB
Power range SM	0 to -80 dBm
Detector	InGaAs
Connector	FC/APC
Weight	4 kg

Notes

Specs from JDSU RM3xxx Backreflection Meter specification sheet; wavelength/connector decoded from +1FA7 ordering (1310/1550, FC/APC). Confirm fiber code and sources 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.