

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

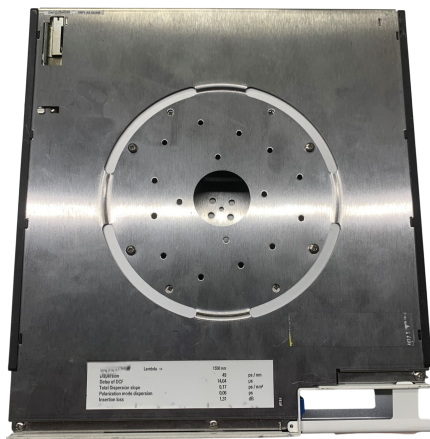
Data Sheet

August 3, 2026

SIEMENS

Siemens pureform DCF UDCMC50A Dispersion Compensation -862.00 ps/nm

Siemens pureform DCF UDCMC50A Dispersion Compensation -862.00 ps/nm The UDCMC50A provides a Siemens Pureform dispersion compensation fiber (DCF) module specified at approximately -862.00 ps/nm dispersion for stronger negative chromatic-dispersion compensation in C-band optical transmission systems. Higher-value dispersion compensation on long C-band spans; passive DCF between optical amplifiers; pulse-broadening control for high-speed optical transport; Pureform inventory matching -862 ps/nm. The UDCMC50A provides a Siemens Pureform dispersion compensation fiber (DCF) module specified at approximately -862.00 ps/nm dispersion for stronger negative chromatic-dispersion compensation in C-band optical transmission systems. Higher-value dispersion compensation on long C-band spans; passive DCF between optical amplifiers; pulse-broadening control for high-speed optical transport; Pureform inventory matching -862 ps/nm.



MODEL

**Siemens
UDCMC50A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

UDCMC50A

LISTING

<https://aumictechlabs.com/products/udcmc50a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Siemens pureform DCF UDCMC50A is a dispersion compensation module engineered to counteract chromatic dispersion in optical networks. It delivers -862.00 ps/nm compensation,

restoring signal integrity across extended transmission paths. Built on single-mode fiber, this module integrates into DWDM systems where multi-channel signal fidelity is essential. The UDCMC50A enables longer reaches and improved signal quality in high-speed optical communication deployments.

Technical Specifications

Product Type: Dispersion Compensation Module (DCM)

Dispersion Compensation Value: -862.00 ps/nm

Fiber Type: Single-Mode Fiber

Cable Type: Siemens single-mode fiber

Condition: Available as used equipment; fully operational and functional

Key Features

- Negative dispersion compensation specifically matched for post-span equalization
- Single-mode fiber construction for compatibility with standard optical networks
- Designed for deterministic chromatic dispersion cancellation in DWDM architectures

Typical Applications

- Dense Wavelength Division Multiplexing (DWDM) systems
- Long-haul and metro optical networks
- High-speed transmission systems requiring chromatic dispersion management
- Signal regeneration and reach extension in optical communications

Compatibility & Integration

The UDCMC50A integrates into optical network infrastructure supporting single-mode fiber deployments. Typical applications span DWDM systems where dispersion compensation is required at the receiver or inline within the transmission path.

Features & description

From manufacturer datasheet

Features

- Pureform DCF module, model UDCMC50A
- Dispersion approximately -862.00 ps/nm
- Passive optical component (no electrical power)
- C-band operation class (approximately 1525–1565 nm)
- Compatible with ITU-T G.652 single-mode fiber
- Nominal full dispersion-slope compensation class (family)

UDCMC50A Characteristics / Specifications

PARAMETER	VALUE
Model	UDCMC50A
Manufacturer	Siemens Pureform
Instrument Type	Dispersion Compensation Fiber (DCF) Module
Dispersion	−862.00 ps/nm
Operating Band	C-band class
Compatible Fiber	ITU-T G.652 SMF
Operation	Passive
Related Models	UDCMC20 (−342 ps/nm); UDCMC80P (+49 ps/nm)
Alias	UDCMC50A Standard Operating Conditions Confirm engraved −862.00 ps/nm on the module. Install within amplifier cascade per link design; respect DCF bend-radius limits. Operational Notes UDCMC50A provides more negative dispersion than UDCMC20–do not substitute by model number alone. Alias UDCMC50A.

UDCMC50A Specifications

PARAMETER	VALUE
Key Features	- Pureform DCF module, model UDCMC50A
Technical Specifications	Model: UDCMC50A
Standard Operating Conditions	Confirm engraved -862.00 ps/nm on the module. Install within amplifier cascade per link design; respect DCF bend-radius limits.
Operational Notes	UDCMC50A provides more negative dispersion than UDCMC20—do not substitute by model number alone. Alias UDCMC50A.

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	UDCMC50A
Manufacturer	Siemens Pureform
Instrument Type	Dispersion Compensation Fiber (DCF) Module
Dispersion	-862.00 ps/nm
Operating Band	C-band class
Compatible Fiber	ITU-T G.652 SMF
Operation	Passive
Related Models	UDCMC20 (-342 ps/nm); UDCMC80P (+49 ps/nm)
Alias	UDCMC50A

Standard Operating Conditions

Confirm engraved -862.00 ps/nm on the module. Install within amplifier cascade per link design; respect DCF bend-radius limits.

Operational Notes

UDCMC50A provides more negative dispersion than UDCMC20-do not substitute by model number alone. Alias UDCMC50A.

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>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 3, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.