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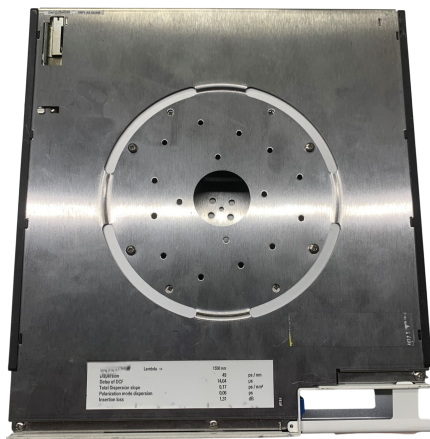
Data Sheet

August 3, 2026

SIEMENS

Siemens pureform DCF UDCMC20 Dispersion Compensation -342.00 PS/NM

Siemens pureform DCF UDCMC20 Dispersion Compensation -342.00 PS/NM The UDCMC20 provides a Siemens Pureform dispersion compensation fiber (DCF) module specified at approximately -342.00 ps/nm dispersion, providing negative chromatic dispersion to offset accumulated positive dispersion in C-band G.652 fiber links. Chromatic dispersion compensation in C-band DWDM/SDH links; passive DCF placement between EDFAs; reduction of dispersion-induced pulse broadening and BER; Pureform DCF family matching -342 ps/nm. The UDCMC20 provides a Siemens Pureform dispersion compensation fiber (DCF) module specified at approximately -342.00 ps/nm dispersion, providing negative chromatic dispersion to offset accumulated positive dispersion in C-band G.652 fiber links. Chromatic dispersion compensation in C-band DWDM/SDH links; passive DCF placement between EDFAs; reduction of dispersion-induced pulse broadening and BER; Pureform DCF family matching -342 ps/nm.



MODEL

**Siemens
UDCMC20**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

UDCMC20

LISTING

<https://aumictechlabs.com/products/udcmc20-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Siemens pureform DCF UDCMC20 is a passive dispersion compensation module engineered to counteract chromatic dispersion in optical fiber communication systems. It delivers -342.00

ps/nm of negative dispersion compensation, enabling signal integrity preservation and extended transmission reach in high-bit-rate DWDM networks without regeneration. The module utilizes dispersion compensating fiber (DCF) technology and operates across the C-Band wavelength range (1525 nm to 1565 nm). Technical Specifications Dispersion Compensation Value: -342.00 ps/nm Core Technology: Negative Dispersion Compensation Fiber (DCF) Fiber Type: Single-Mode Operating Wavelength Range: C-Band (1525 nm to 1565 nm) Dispersion Slope Compensation: Nominal 100 percent dispersion slope compensation for standard single-mode fibers Module Type: Passive Key Features Mitigates chromatic dispersion-induced signal spreading and distortion over long transmission distances Reduces residual dispersion in optical transmission paths Designed for compatibility with ITU G.652 compliant single-mode fibers, including Corning SMF-28™ Enhances overall DWDM system performance through dispersion slope matching Typical Applications Dense Wavelength Division Multiplexing (DWDM) systems Long-haul and ultra-long-haul optical communication networks High-bit-rate transmission systems requiring extended reach Standard single-mode fiber transmission optimization Compatibility & Integration The UDCMC20 complements standard single-mode transmission fibers in modern optical networks. Its dispersion compensation characteristics align with ITU G.652 fiber standards, enabling direct integration into existing DWDM architectures and long-distance communication infrastructure.

Features & description

From manufacturer datasheet

Features

- Pureform DCF module, model UDCMC20
- Dispersion approximately -342.00 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
- Related designation UDCM-C20LL (-342 ps/nm class) in some catalogs

UDCMC20 Characteristics / Specifications

PARAMETER	VALUE
Model	UDCMC20
Manufacturer	Siemens Pureform
Instrument Type	Dispersion Compensation Fiber (DCF) Module
Dispersion	−342.00 ps/nm
Operating Band	C-band class
Compatible Fiber	ITU-T G.652 SMF
Operation	Passive
Related Models	UDCM-C20LL; UDCMC50A; UDCMC80P
Alias	UDCMC20 Standard Operating Conditions Observe DCF bend radius and connector cleanliness. Confirm label −342.00 ps/nm before installing in the link budget. Operational Notes Distinguish UDCMC20 (−342 ps/nm) from UDCMC80P (+49 ps/nm) and UDCMC50A (−862 ps/nm). Alias UDCMC20.

UDCMC20 Specifications

PARAMETER	VALUE
Key Features	- Pureform DCF module, model UDCMC20
Technical Specifications	Model: UDCMC20
Standard Operating Conditions	Observe DCF bend radius and connector cleanliness. Confirm label -342.00 ps/nm before installing in the link budget.
Operational Notes	Distinguish UDCMC20 (-342 ps/nm) from UDCMC80P (+49 ps/nm) and UDCMC50A (-862 ps/nm). Alias UDCMC20.

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

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Operational Notes

Distinguish UDCMC20 (-342 ps/nm) from UDCMC80P (+49 ps/nm) and UDCMC50A (-862 ps/nm). Alias UDCMC20.

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.