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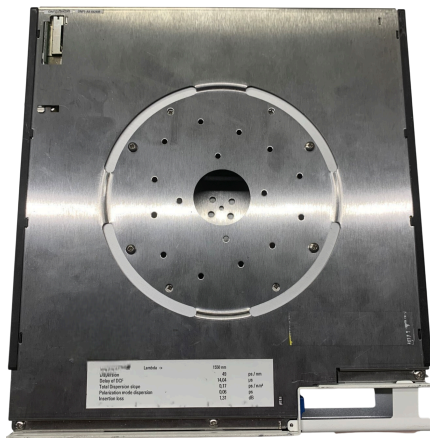
Data Sheet

August 3, 2026

SIEMENS

Siemens pureform DCF UDCMC80P Dispersion Compensation +49.00 ps/nm

Siemens pureform DCF UDCMC80P Dispersion Compensation +49.00 ps/nm The UDCMC80P provides a Siemens Pureform dispersion compensation fiber (DCF) module specified at approximately +49.00 ps/nm dispersion, for chromatic-dispersion management in C-band optical transmission links using ITU-T G.652 fiber. Chromatic dispersion compensation / trimming in C-band DWDM links; passive placement between optical amplifiers; pulse-broadening mitigation for high-bit-rate optical transport; Pureform DCF family inventory matching +49 ps/nm specification. The UDCMC80P provides a Siemens Pureform dispersion compensation fiber (DCF) module specified at approximately +49.00 ps/nm dispersion, for chromatic-dispersion management in C-band optical transmission links using ITU-T G.652 fiber. Chromatic dispersion compensation / trimming in C-band DWDM links; passive placement between optical amplifiers; pulse-broadening mitigation for high-bit-rate optical transport; Pureform DCF family inventory matching +49 ps/nm specification.



MODEL

**Siemens
UDCMC80P**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

UDCMC80P

LISTING

<https://aumictechlabs.com/products/udcmc80p-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Siemens pureform DCF UDCMC80P is a dispersion compensation module engineered for single-mode fiber optic networks. Operating as a dispersion compensation module (DCM), it delivers +49.00 ps/nm of dispersion compensation to counteract chromatic dispersion effects in long-haul optical communication systems. This compensation preserves signal integrity and maintains performance quality across extended fiber links, making it essential infrastructure for high-fidelity optical signal transmission.

Technical Specifications

Module Type:	Dispersion Compensation Module (DCM)
Fiber Type:	Single-Mode Fiber (SMF)
Dispersion Compensation:	+49.00 ps/nm

Key Features

- Counteracts chromatic dispersion in optical fiber links
- Designed specifically for single-mode fiber systems
- Supports extended transmission distances without signal degradation

Typical Applications

- Long-haul optical communication systems
- Single-mode fiber optic networks requiring dispersion management
- Signal quality optimization in extended-distance deployments

Compatibility & Integration

The UDCMC80P integrates with single-mode fiber optic communication systems where chromatic dispersion compensation is required.

Features & description

From manufacturer datasheet

Features

- Pureform DCF module, model UDCMC80P
- Dispersion approximately +49.00 ps/nm
- Passive optical component (no electrical power)
- C-band operation class (approximately 1525–1565 nm)
- Compatible with standard single-mode fiber (ITU-T G.652)
- Dispersion slope compensation nominal 100% class (family)

UDCMC80P Characteristics / Specifications

PARAMETER	VALUE
Model	UDCMC80P
Manufacturer	Siemens Pureform
Instrument Type	Dispersion Compensation Fiber (DCF) Module
Dispersion	+49.00 ps/nm
Operating Band	C-band class
Compatible Fiber	ITU-T G.652 SMF
Operation	Passive
Related Family	UDCMC20, UDCMC50A, and other Pureform UDCMC variants
Alias	UDCMC80P Standard Operating Conditions Install with correct fiber connectors and observe bend-radius limits for DCF modules. Place per link design between amplifier stages. Confirm engraved dispersion value +49.00 ps/nm on the module label.

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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Compatible Fiber	ITU-T G.652 SMF
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Related Family	UDCMC20, UDCMC50A, and other Pureform UDCMC variants
Alias	UDCMC80P

Standard Operating Conditions

Install with correct fiber connectors and observe bend-radius limits for DCF modules. Place per link design between amplifier stages. Confirm engraved dispersion value +49.00 ps/nm on the module label.

Operational Notes

UDCMC80P is specified with positive +49 ps/nm-unusual versus many negative DCF modules; do not interchange with UDCMC20 (-342 ps/nm) or UDCMC50A (-862 ps/nm). Alias UDCMC80P.

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.