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Data Sheet

August 3, 2026

SIEMENS

Siemens pureform DCF UDCMC30A Dispersion Compensation -523.00 ps/nm

Siemens pureform DCF UDCMC30A Dispersion Compensation -523.00 ps/nm The UDCMC30A provides a Siemens Pureform dispersion compensation fiber (DCF) module specified at -523.00 ps/nm. PureForm-class DCM modules counteract chromatic dispersion across the C-band on G.652 single-mode fiber using passive DCF (no electrical power). Negative chromatic-dispersion compensation on C-band spans; placement between optical amplifiers; pulse-broadening control for SDH/DWDM transport; inventory matching -523.00 ps/nm. The UDCMC30A provides a Siemens Pureform dispersion compensation fiber (DCF) module specified at -523.00 ps/nm. PureForm-class DCM modules counteract chromatic dispersion across the C-band on G.652 single-mode fiber using passive DCF (no electrical power). Negative chromatic-dispersion compensation on C-band spans; placement between optical amplifiers; pulse-broadening control for SDH/DWDM transport; inventory matching -523.00 ps/nm.



MODEL

**Siemens
UDCMC30A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

UDCMC30A

LISTING

<https://aumictechlabs.com/products/udcmc30a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Siemens pureform DCF UDCMC30A is a dispersion compensation module engineered to counteract chromatic dispersion in single-mode fiber optic communication systems. Operating with a compensation value of -523.00 ps/nm, this module directly addresses signal degradation accumulated over extended fiber spans. It restores signal integrity, reduces bit error rates, and extends optical network reach by precisely managing chromatic dispersion effects in SMF-28 fiber installations.

Technical Specifications
Dispersion Compensation Value: -523.00 ps/nm
Fiber Type: Single Mode Fiber
Optimized for: Standard SMF-28 fiber compensation

Key Features
Targets chromatic dispersion mitigation in long-distance optical links
Improves signal quality through precise dispersion management
Enhances bit error rate performance
Supports extended network reach in single-mode fiber systems

Typical Applications
Long-haul optical fiber communication systems
Signal regeneration in extended SMF-28 deployments
Chromatic dispersion correction in terrestrial and submarine networks
Systems requiring precise dispersion compensation at -523.00 ps/nm

Compatibility & Integration
Designed for integration with single-mode fiber optic communication systems utilizing standard SMF-28 fiber. The module functions as a dispersion compensation element within optical transmission chains where accumulated chromatic dispersion requires correction.

Features & description

From manufacturer datasheet

Features

- Pureform DCF module, model UDCMC30A
- Dispersion: -523.00 ps/nm
- Passive optical component (no electrical power)
- C-band operation: approximately 1525–1565 nm (PureForm family)
- Compatible with ITU-T G.652 single-mode fiber
- Nominal full dispersion-slope compensation class (PureForm family)
- Family center-wavelength class: 1545 nm (PureForm DCM literature)

UDCMC30A Characteristics / Specifications

PARAMETER	VALUE
Model	UDCMC30A
Manufacturer	Siemens Pureform
Instrument Type	Dispersion Compensation Fiber (DCF) Module
Dispersion	–523.00 ps/nm
Operating Band	C-band (approx. 1525–1565 nm)
Compatible Fiber	ITU-T G.652 SMF
Operation	Passive
Dispersion Slope Compensation	Nominal full-slope class (family)
Alias	UDCMC30A Related Pureform Context PureForm DCM modules historically offered dispersion values from about –50 to –2100 ps/nm in –50 ps/nm increments. Confirm engraved value on the module. Standard Operating Conditions Confirm engraved –523.00 ps/nm. Observe DCF minimum bend radius and connector cleanliness. Install per link dispersion budget between amplifiers as designed.
C-band operation	approximately 1525–1565 nm (PureForm family)
Family center-wavelength class	1545 nm (PureForm DCM literature)

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	UDCMC30A
Manufacturer	Siemens Pureform
Instrument Type	Dispersion Compensation Fiber (DCF) Module
Dispersion	-523.00 ps/nm
Operating Band	C-band (approx. 1525-1565 nm)
Compatible Fiber	ITU-T G.652 SMF
Operation	Passive
Dispersion Slope Compensation	Nominal full-slope class (family)
Alias	UDCMC30A

Related Pureform Context

PureForm DCM modules historically offered dispersion values from about -50 to -2100 ps/nm in -50 ps/nm increments. Confirm engraved value on the module.

Standard Operating Conditions

Confirm engraved -523.00 ps/nm. Observe DCF minimum bend radius and connector cleanliness. Install per link dispersion budget between amplifiers as designed.

Operational Notes

Do not substitute UDCMC30A (-523.00 ps/nm) with UDCMC30LL (-507.20 ps/nm) or other UDCMC30x variants without verifying the faceplate dispersion.

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.