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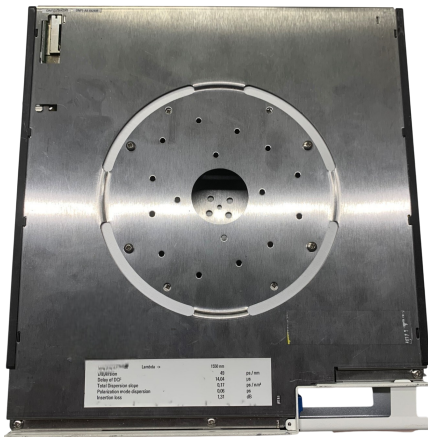
Data Sheet

August 3, 2026

SIEMENS

Siemens pureform DCF UDCMC30LL Dispersion Compensation -507.20 ps/nm

Siemens pureform DCF UDCMC30LL Dispersion Compensation -507.20 ps/nm The UDCMC30LL provides a Siemens Pureform dispersion compensation fiber (DCF) module specified at -507.20 ps/nm. PureForm-class DCM modules provide passive negative chromatic dispersion across the C-band for G.652 SMF links. C-band dispersion compensation near -507 ps/nm; amplifier-cascade DCF placement; Pureform inventory matching the LL (-507.20 ps/nm) engraving. The UDCMC30LL provides a Siemens Pureform dispersion compensation fiber (DCF) module specified at -507.20 ps/nm. PureForm-class DCM modules provide passive negative chromatic dispersion across the C-band for G.652 SMF links. C-band dispersion compensation near -507 ps/nm; amplifier-cascade DCF placement; Pureform inventory matching the LL (-507.20 ps/nm) engraving.



MODEL

**Siemens
UDCMC30LL**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

UDCMC30LL

LISTING

<https://aumictechlabs.com/products/udcmc30ll-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Siemens pureform DCF UDCMC30LL is a Dispersion Compensation Module (DCM) engineered to counteract chromatic dispersion in optical fiber communication systems. It delivers a dispersion compensation value of -507.20 ps/nm, preserving signal integrity across long-

distance, high-speed transmissions. This single-mode fiber module is essential infrastructure for telecommunications networks where signal fidelity directly impacts system reach and capacity.

Technical Specifications

- Dispersion Compensation Value: -507.20 ps/nm
- Fiber Type: Single-Mode
- Fiber Insertion Loss: Typically low, minimizing signal attenuation
- Polarization Mode Dispersion (PMD): Typically low, critical for high-bit-rate signal quality
- Total Dispersion Slope: Managed across wavelength range for DWDM applications
- Operating Temperature Range: -20°C to +70°C (storage)
- Relative Humidity: 5% to 95% (non-condensing)

Key Features

- Negative dispersion compensation (-507.20 ps/nm) for pre- or post-transmission equalization
- Single-mode fiber construction for compatibility with standard G.652 optical fiber
- Low insertion loss and PMD characteristics for minimal signal degradation
- Dispersion slope management across operating wavelengths

Typical Applications

- DWDM system dispersion compensation
- SDH/SONET long-haul optical transport
- High-speed optical network transmission reach extension
- Data center interconnect systems requiring chromatic dispersion correction

Compatibility & Integration

Designed for integration into optical transmission systems supporting DWDM, OTDM, and SDH platforms. Compatible with standard single-mode optical fiber per G.652 specifications. Module-based form factor enables integration into rack-mounted optical transmission equipment.

Features & description

From manufacturer datasheet

Features

- Pureform DCF module, model UDCMC30LL • Dispersion: -507.20 ps/nm • Passive optical component (no electrical power) • C-band: approximately 1525–1565 nm • Compatible with ITU-T G.652 SMF • Nominal full dispersion-slope compensation class (PureForm family)

UDCMC30LL Characteristics / Specifications

PARAMETER	VALUE
Model	UDCMC30LL
Manufacturer	Siemens Pureform
Instrument Type	Dispersion Compensation Fiber (DCF) Module
Dispersion	−507.20 ps/nm
Operating Band	C-band (approx. 1525–1565 nm)
Compatible Fiber	ITU-T G.652 SMF
Operation	Passive
Alias	UDCMC30LL; udcmc30ll-2 Standard Operating Conditions Confirm engraved −507.20 ps/nm. Observe bend-radius and cleanliness limits for DCF modules. Operational Notes Distinguish from UDCMC30A (−523.00 ps/nm). Match the faceplate dispersion value, not only the UDCMC30 prefix.
C-band	approximately 1525–1565 nm

UDCMC30LL Specifications

PARAMETER	VALUE
Key Features	- Pureform DCF module, model UDCMC30LL
Technical Specifications	Model: UDCMC30LL
Standard Operating Conditions	Confirm engraved -507.20 ps/nm. Observe bend-radius and cleanliness limits for DCF modules.
Operational Notes	Distinguish from UDCMC30A (-523.00 ps/nm). Match the faceplate dispersion value, not only the UDCMC30 prefix.

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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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.