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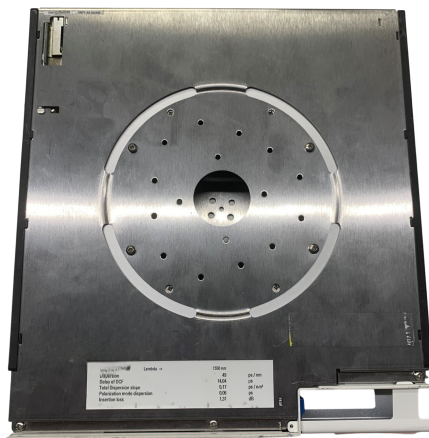
Data Sheet

August 3, 2026

SIEMENS

Siemens pureform DCF UDCMC40 Dispersion Compensation -663 ps/nm

Siemens pureform DCF UDCMC40 Dispersion Compensation -663 ps/nm The UDCMC40 provides a Siemens Pureform dispersion compensation fiber (DCF) module specified at -663 ps/nm for stronger negative chromatic-dispersion compensation in C-band G.652 systems. Longer-span C-band dispersion compensation near -663 ps/nm; passive DCF in amplifier cascades; Pureform inventory matching -663 ps/nm. The UDCMC40 provides a Siemens Pureform dispersion compensation fiber (DCF) module specified at -663 ps/nm for stronger negative chromatic-dispersion compensation in C-band G.652 systems. Longer-span C-band dispersion compensation near -663 ps/nm; passive DCF in amplifier cascades; Pureform inventory matching -663 ps/nm.



MODEL

**Siemens
UDCMC40**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

UDCMC40

LISTING

<https://aumictechlabs.com/products/udcmc40-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Siemens Pureform DCF UDCMC40 is a Dispersion Compensation Module engineered to counteract chromatic dispersion in optical fiber communication systems. By compensating for dispersive effects across the transmission path, this module extends reach and preserves signal integrity in high-speed data networks. The UDCMC40 delivers -663 ps/nm of dispersion

compensation using single mode fiber technology, making it suitable for systems where chromatic dispersion mitigation is critical to link performance and reliability.

Technical Specifications

Product Type: Dispersion Compensation Module (DCM)

Dispersion Compensation: -663 ps/nm

Fiber Type: Single Mode Fiber

Key Features

- Negative dispersion compensation value optimized for post-compensating standard single mode fiber links
- Single mode fiber construction for integration into existing optical architectures

Part of the Siemens Pureform DCF product family, which offers multiple dispersion values (UDCMC128P, UDCMC60LL, UDCMC20 and others) to match diverse system requirements.

Typical Applications

- Long-haul optical transmission systems
- Metropolitan and regional network spans requiring dispersion management
- Point-to-point fiber links in systems experiencing cumulative chromatic dispersion
- Network upgrades where dispersion penalty limits transmission distance

Compatibility & Integration

The UDCMC40 integrates into optical fiber communication systems requiring chromatic dispersion compensation. Selection of the -663 ps/nm compensation value depends on the accumulated dispersion over the transmission path. Other models in the Siemens Pureform DCF series provide alternative compensation values to address different span lengths and fiber types within network deployments.

Features & description

From manufacturer datasheet

Features

- Pureform DCF module, model UDCMC40
- Dispersion: -663 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)

UDCMC40 Characteristics / Specifications

PARAMETER	VALUE
Model	UDCMC40
Manufacturer	Siemens Pureform
Instrument Type	Dispersion Compensation Fiber (DCF) Module
Dispersion	−663 ps/nm
Operating Band	C-band (approx. 1525–1565 nm)
Compatible Fiber	ITU-T G.652 SMF
Operation	Passive
Alias	UDCMC40 Standard Operating Conditions Confirm engraved −663 ps/nm. Respect bend radius and connector cleanliness. Operational Notes Higher magnitude than UDCMC30A (−523.00 ps/nm) and UDCMC30LL (−507.20 ps/nm)—do not substitute by UDCMC prefix alone.
C-band	approximately 1525–1565 nm

UDCMC40 Specifications

PARAMETER	VALUE
Applications	Longer-span C-band dispersion compensation near -663 ps/nm; passive DCF in amplifier cascades; Pureform inventory matching -663 ps/nm.
Key Features	- Pureform DCF module, model UDCMC40
Technical Specifications	Model: UDCMC40
Standard Operating Conditions	Confirm engraved -663 ps/nm. Respect bend radius and connector cleanliness.
Operational Notes	Higher magnitude than UDCMC30A (-523.00 ps/nm) and UDCMC30LL (-507.20 ps/nm)—do not substitute by UDCMC prefix alone.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.