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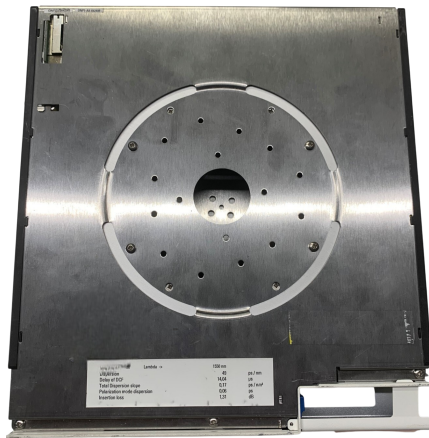
Data Sheet

August 3, 2026

SIEMENS

Siemens pureform DCF UDCMC5 Dispersion Compensation -87.40 ps/nm

Siemens pureform DCF UDCMC5 Dispersion Compensation -87.40 ps/nm The UDCMC5 provides a Siemens Pureform dispersion compensation fiber (DCF) module specified at -87.40 ps/nm for lighter negative chromatic-dispersion compensation in C-band G.652 links. Fine or short-span dispersion trim near -87 ps/nm; passive DCF between amplifiers; Pureform inventory matching -87.40 ps/nm. The UDCMC5 provides a Siemens Pureform dispersion compensation fiber (DCF) module specified at -87.40 ps/nm for lighter negative chromatic-dispersion compensation in C-band G.652 links. Fine or short-span dispersion trim near -87 ps/nm; passive DCF between amplifiers; Pureform inventory matching -87.40 ps/nm.



MODEL

Siemens UDCMC5

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

UDCMC5

LISTING

<https://aumictechlabs.com/products/udcmc5-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Siemens Pureform DCF UDCMC5 is a passive dispersion compensation module (DCM) that counteracts chromatic dispersion in optical fiber communication systems. With a compensation value of -87.40 ps/nm and nominal 100 percent dispersion slope compensation, the UDCMC5 maintains signal integrity across extended transmission distances in DWDM and long-haul networks. The module eliminates pulse-broadening effects caused by wavelength-dependent

propagation delays, preventing bit errors and ensuring optimal signal quality without introducing modulation format or speed dependencies.

Technical Specifications

Dispersion Compensation Value: -87.40 ps/nm

Dispersion Slope Compensation: Nominal 100 percent

Target Fiber Type: Standard single-mode optical fiber (G.652)

Wavelength Range: C-Band (1525 nm to 1565 nm)

Modulation Format Independence: Speed and format-independent compensation

Channel Effects: No channelization effects or penalties

Power Consumption: Passive module - no external power required

Compliance: Telcordia GR-2854-CORE and GR-1221-CORE standards

Key Features

Passive design eliminates external power requirements and associated complexity

Operates across the full C-Band wavelength range without format-specific limitations

Complete dispersion slope compensation reduces residual dispersion across multiple channels

No penalty or penalty-free operation for any modulation scheme or transmission speed

Typical Applications

DWDM transmission systems requiring residual dispersion reduction

Long-haul and ultra-long-haul optical networks

Metropolitan area networks with extended reach requirements

SDH/SONET systems

Cable television AM video links

CATV systems

Compatibility & Integration

The UDCMC5 integrates into multi-vendor DWDM transport architectures alongside transponders and optical amplifiers. Compatible with standard single-mode fiber deployments operating within the C-Band wavelength window.

Features & description

From manufacturer datasheet

Features

- Pureform DCF module, model UDCMC5
- Dispersion: -87.40 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)

UDCMC5 Characteristics / Specifications

PARAMETER	VALUE
Model	UDCMC5
Manufacturer	Siemens Pureform
Instrument Type	Dispersion Compensation Fiber (DCF) Module
Dispersion	−87.40 ps/nm
Operating Band	C-band (approx. 1525–1565 nm)
Compatible Fiber	ITU-T G.652 SMF
Operation	Passive
Alias	UDCMC5 Related Models (do not cross-match) UDCMC50A (−862.00 ps/nm) isadifferent higher-magnitude module—not interchangeable with UDCMC5. Standard Operating Conditions Confirm engraved −87.40 ps/nm before installation. Respect DCF bend radius.
C-band	approximately 1525–1565 nm

UDCMC5 Specifications

PARAMETER	VALUE
Applications	Fine or short-span dispersion trim near -87 ps/nm; passive DCF between amplifiers; Pureform inventory matching -87.40 ps/nm.
Key Features	- Pureform DCF module, model UDCMC5
Technical Specifications	Model: UDCMC5
Standard Operating Conditions	Confirm engraved -87.40 ps/nm before installation. Respect DCF bend radius.
Operational Notes	UDCMC5 is a low-magnitude compensator relative to UDCMC30/40/60 family modules.

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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Related Models (do not cross-match)

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Operational Notes

UDCMC5 isalow-magnitude compensator relative to UDCMC30/40/60 family modules.

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.