Optical Node Series (NC)

DC4520

Dispersion Compensation Module

FEATURES

- Field deployable optical module based on dispersion compensating fiber technology
- Superior dispersion compensation performance over 1530–1565 nm wavelength window
- Low insertion loss
- Hot plug in/out

PRODUCT OVERVIEW

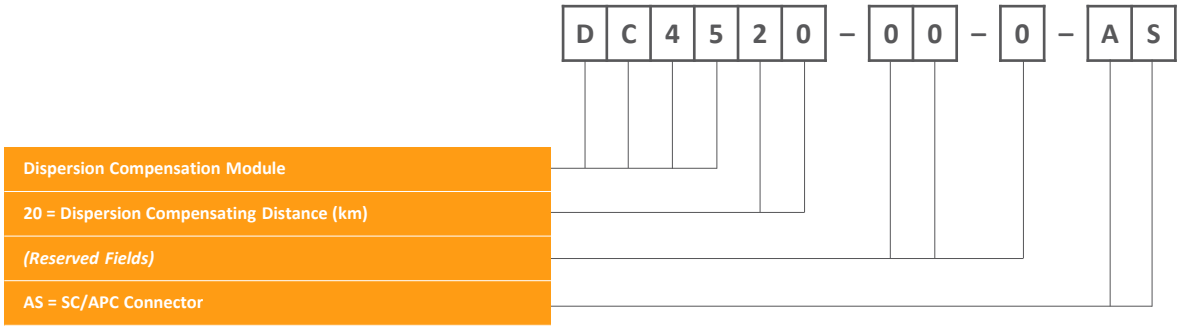
Dispersion in optical networks used for data transport, particularly over longer fiber distances, can adversely affect system performance (e.g., due to increased bit-rate errors resulting from pulse shape degradation). ARRIS's DC4520 Dispersion Compensation Module is designed to minimize such effects and provide appropriate pulse shape correction.

This unit is designed as a two-slot-wide plug-in module for ARRIS's NC2000 and NC4000 series Fiber Node Platforms, including the VH4000 "Virtual Hub," and when used in the latter, provides a practical alternative to OTN-style cabinets.

SPECIFICATIONS

Characteristics	Specification
Physical	
Dimensions	4.0" L x 2.0"H x 4.5" W (10.2 cm x 5.1 cm x 11.4 cm)
Weight	1.3 lbs (0.6 kg)
Environmental	
Operating Temperature Range	–40° to +85°C (–40° to +185°F)
Storage Temperature Range	–40° to +85°C (–40° to +185°F)
Humidity	5% to 95% non-condensing
General	
Hot plug–in/out	
Power Requirements	
Input voltage	24 V_{DC}
Power consumption, max	0.1 W
Optical Interface	
Optical connectors	SC/APC
Optical	
Wavelength window	1530–1565 nm
Distance for SMF-28 Dispersion Compensation	20 km
Insertion loss, max	2.8 dB
Dispersion	–340 ps/nm (± 3%)
Return loss, min	25 dB
Total power handling, max (without optical damage)	27 dBm
Polarization dependent loss, max	0.1 dB
Polarization mode dispersion, max	0.6 ps (typ 0.25 ps)

ORDERING INFORMATION



RELATED PRODUCTS

NC4000 Optical Node	Optical Patch Cords
NC2000 Optical Node	Optical Passives
Fiber Service Cable	Installation Services

Customer Care

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656

Note: Specifications are subject to change without notice.

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