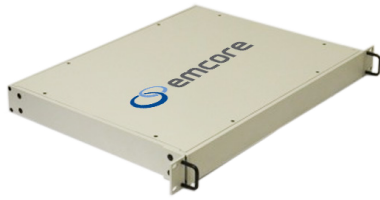


359C Series 1550 nm Dispersion Compensation Module



Applications

- Radar Testing/Calibration
- Signal Processing
- Phased Array Antennas
- Phase Noise Processing
- Antenna Site Diversity

Features

- Delays Up to 127 microseconds
- 24 km
- Small Size
- Flat RF Amplitude Response and Phase

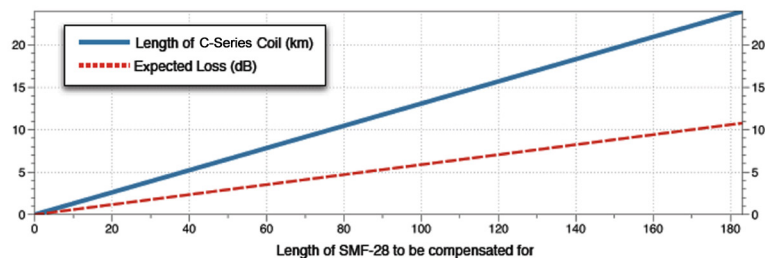
The 359C Series Dispersion Compensation Module provides a solution for dealing with existing high dispersion legacy installations. By providing a negative dispersion, fiber with high positive dispersion can be fully compensated. Typical dispersion compensation modules can increase the total fiber length by as much as 65%, while these highly efficient high dispersion fibers only increase the total fiber length of the system by approximately 13%. Thus lessening the requirement on the EDFA modules required to compensate for the total fiber loss.

The 359X platform works with a wide range of fiber optic transport products for satellite and microwave communications from 1 MHz to 40 GHz. These units can be used to construct transparent inter- and intra-facility links from 1 meter to >200 km for RF and microwave signal transport, antenna remoting, video transport, electronic warfare systems and other high-dynamic-range applications.

Delay Length & Dispersion Specifications

Product	Size	Max Delay	Max. Length	Total Dispersion
359C	1 RU	110 μ s	24 km	-1.6*10 ⁵ ps/nm

Note: Max length of SMF-28 brought to 0 dispersion is 183.4 km.



Optical Specifications

Parameter	Typical	Units
Attenuation @ 1550 nm	≤ 0.55	dB/km
Index of Refraction (IOR) @ 1550 nm	1.469	
Typical Total Dispersion @ 1550 nm	-130	ps/nm-km

359C Series 1550 nm Dispersion Compensation Module

Mechanical Specifications

Description	Value	Units
Body Dimensions 1 RU	13 (330.2) x 16.6 (421.6) x 1.72 (43.7)	in (mm)
Faceplate Dimensions 1 RU	19 (482.6) x 1.75 (44.5)	in (mm)
Storage Temperature	-60 to +85	°C
Operating Temperature	-40 to +85	°C

Ordering Information

Product Number
359C-WW-XXXXXX-YY-ZZ

- When ordering replace "WW" with one of the Rack Unit Size Options
- When ordering replace "XXXXXX" with one of the Delay Options
- When ordering replace "YY" with one of the Connector Type Options
- When ordering replace "ZZ" with one of the Optional Features

Coil Type "C"	Rack Unit Size "WW"	Delay in μ S "XXXXXX"	Connector Type "YY"	Optional Features* "ZZ"
C = Zero Compensation Dispersion	1U = 19" x 1.75" (1 RU)	001000 = 10 μ s Delay 010000 = 100 μ s Delay	SA = SC/APC FA = FC/APC LA = LC/APC EA = E2000/APC	P = Pigtail Leads B = Bulkhead

Pigtail Leads - If preferred, the standard bulkhead connector input and output of the 359C Series Delay and Dispersion Compensation Modules can be replaced with a one meter long pigtail with a male connector on the end.