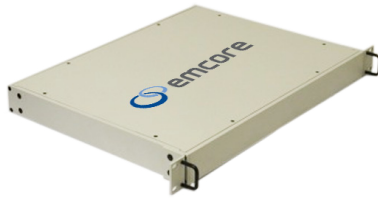


359C Series 1550 nm Dispersion Compensation Module



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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

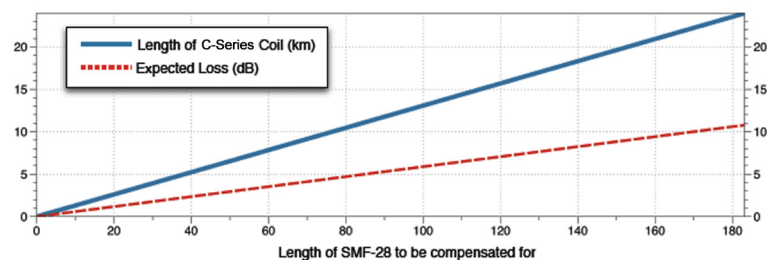
The 359C Series Dispersion Compensation Module provides a solution for dealing with existing high dispersion legacy installations. By providing a negative dispersion, fiber with high positive dispersion can be fully compensated. Typical dispersion compensation modules can increase the total fiber length 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 |

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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.