

DISPERSION COMPENSATING MODULES

Specification Sheet

RightWave REACH DK L

L-Band



A Furukawa Company

Product Description

OFS RightWave REACH DK-L dispersion compensating modules are capable of compensating the dispersion and dispersion slope of TrueWave REACH fiber in the wavelength range 1570-1610 nm (L-Band). The modules (based entirely on mature and reliable single-mode optical fiber technology) have a high negative dispersion and a dispersion slope that matches that of the TrueWave REACH transmission fiber.

OFS modules consist of a box with a spooled length of dispersion compensating fiber spliced to connectorized pigtailed.

The modules provide an ideal solution for compensating the dispersion in systems based on TrueWave REACH fiber, and thereby, enabling wide band DWDM operation in the L-Band at high bit rates.

Typical Applications

- DWDM networks based on TrueWave REACH fiber operating in the L-Band

Features and Benefits

- 100% slope compensation of TrueWave REACH fiber in the L-Band
- Low insertion loss
- Low polarization mode dispersion (PMD)
- Customer specified dispersion
- Available with specification of raman-related optical parameters
- No multiple path interference (MPI) due to higher order modes
- High reliability
- Robust and compact package

Dispersion Compensation

To order items on this spec sheet, please contact our facility in:

- Broendby, Denmark
+45 4345 8888
- or by email inquiry to:
Info@SpecialtyPhotonics.com



OFS Specialty Photonics Division

55 Darling Drive, Avon, CT 06001
25 Schoolhouse Road, Somerset, NJ 08873
Priorparken 680 DK-2605 Broendby, Denmark

www.SpecialtyPhotonics.com



Module Specifications

Optical Properties	REACH DK-L:523 [†]	REACH DK-L:697 [†]	REACH DK-L:871 [†]
Dispersion @ 1590 nm (ps/nm)	-526 ± 9	-701 ± 16	-876 ± 20
Dispersion @ 1570 nm (ps/nm)	-476 ± 9	-634 ± 16	-793 ± 20
Dispersion @ 1610 nm (ps/nm)	-575 ± 9	-767 ± 16	-958 ± 20
Relative dispersion for link [†] of TrueWave REACH fiber and REACH DK L Module over 1570-1610 nm (ps/nm/km)	±0.20	±0.20	±0.20
Insertion loss ^{**} @ 1590 nm (dB)	≤4.2	≤5.2	≤6.1
Insertion loss ^{**} @ 1590 nm (dB) (typical)	3.6	4.4	5.2
Insertion loss ^{**} @ 1570-1610 nm (dB)	≤4.4	≤5.4	≤6.4
Insertion loss ^{**} @ 1570-1610 nm (dB) (typical)	3.7	4.4	5.3
PMD [*] (ps)	≤0.65	≤0.7	≤0.75
PMD [*] (typical)	0.2	0.25	0.3

Physical Properties

Standard dimensions: mm (in)

224 (8.82) x 238 (9.37) x 45 (1.77)
(Other dimensions available on request)

Connectors: As requested

[†] Based on a nominal dispersion characteristic for a TrueWave REACH fiber.

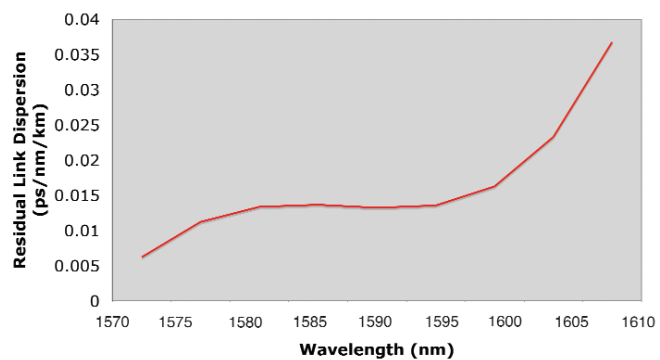
^{**} Including fiber loss, splice loss, and one connector/connector interface loss.

^{*} As measured using the interferometric method (per ITU G.650 (2000)).

^{*} Specification examples. Modules are available with dispersion values down to -2200 ps/nm at 1590 nm. Based on a preliminary TrueWave REACH fiber model. All specifications are subject to change.

All specifications are at room temperature

Dispersion max/min of link normalized to the length of TrueWave® REACH transmission fiber



When combined with a nominal TrueWave REACH fiber, a max/min link dispersion, as shown above, is obtained

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