

# Slope Compensation DC Fiber Module

The Fujikura SC-DCF Module can compensate signal distortion due to an accumulated dispersion through the fiber transmission and upgrade the line for over 10 Gb/s per one wavelength in D-WDM system.

## Features

- ✧ Low loss
- ✧ High FOM (Figure of Merit)
- ✧ Broadband compensation
- ✧ Low PMD

## Applications

- ✧ Long-haul telecommunication system on Standard Single-mode Fibers (G.652)
- ✧ DWDM transmission system

## Slope Compensation DC Fiber Module for C-band

Parameter	Unit	Min.	Max
Operating Wavelength	nm	1525	1565
Operating Temperature	degC	-5	70
Storage Temperature	degC	-20	75
SBS threshold	dBm	4	-
$n_2/A_{eff}$	1/W	-	$1.7 \times 10^{-9}$
Fiber effective area @1550nm	$\mu m^2$	19	-

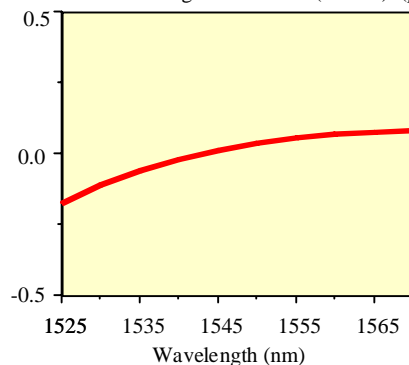
Item	Unit	DC-C-N340-UW	DC-C-N680-UW	DC-C-N1020 - UW	DC-C-N1360 - UW
Dispersion @1545nm	ps/nm	-340+/-10	-680+/-20	-1020+/-30	-1360+/-40
Dispersion Slope @1545nm(Typical)	ps/nm <sup>2</sup>	-1.0	-2.0	-3.1	-4.1
Ratio of Disp. & Disp. Slope @1545nm	nm <sup>-1</sup>	0.0034+/-20%(Standard), +/-10% available TBD for other ratio versions			
Insertion Loss @1550nm	dB	≤3.6	≤5.4	≤7.0	≤8.5
Insertion Loss(Typical)	dB	2.7	4.1	5.3	6.7
PMD	ps	≤0.6	≤0.9	≤1.0	≤1.0
PMD(Typical)	ps	0.2	0.3	0.4	0.5
PDL	dBp-p	≤0.1	≤0.1	≤0.1	≤0.1
Connector type	-	As requested			
Dimensions	mm	224 x 238 x 45			

## Slope Compensation DC Fiber Module for L-band

Parameter	Unit	Min.	Max
Operating Wavelength	nm	1565	1615
Operating Temperature	degC	-5	70
Storage Temperature	degC	-20	75
SBS threshold	dBm	4	-
$n_2/A_{eff}$	1/W	-	$1.7 \times 10^{-9}$
Fiber effective area @1590nm	$\mu m^2$	19	-

Item	Unit	DC-L-N380-UW	DC-L-N760-UW	DC-L-N1140 - UW	DC-L-N1520-UW
Dispersion @1590nm	ps/nm	-380+/-10	-760+/-20	-1140+/-30	-1520+/-40
Dispersion Slope @1590nm(Typical)	ps/nm <sup>2</sup>	-1.0	-2.0	-3.0	-4.0
Ratio of Disp. & Disp. Slope @1590nm (Typical)	nm <sup>-1</sup>	0.0028+/-20%(Standard), +/-10% available TBD for other ratio versions			
Insertion Loss @1590nm	dB	≤3.9	≤5.7	≤7.4	≤8.9
Insertion Loss(Typical)	dB	3.2	4.7	6.3	7.8
PMD	ps	≤0.6	≤0.9	≤1.0	≤1.0
PMD(Typical)	ps	0.3	0.4	0.5	0.5
PDL	dBp-p	≤0.1	≤0.1	≤0.1	≤0.1
Connector type	-	As requested			
Dimensions	mm	224 x 238 x 45			

Typical dispersion of link normalised to length of conventional single mode fiber (G.652.) (ps/nm/km)



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