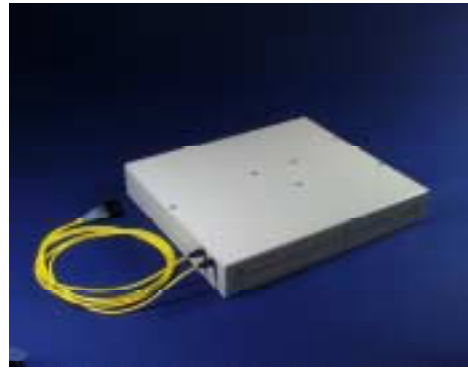


Dispersion Compensating Fiber Module



The Fujikura 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)
- ✧ Low PMD

Applications

- ✧ Precise dispersion management for SMF
- ✧ Long-haul telecommunication system
- ✧ DWDM transmission system

Positive Dispersion Compensation Fiber Module

Parameter	Unit	Min.	Max
Operating Wavelength	nm	1525	1565
Operating Temperature	degC	-5	70
Storage Temperature	degC	-20	75
SBS threshold	dBm	6	-
n_2/A_{eff}	1/W	-	3.3×10^{-10}
Fiber effective area @1550nm	μm^2	80	-

Item	Unit	DC-C-P100	DC-C-P200	DC-C-P300
Dispersion @1550nm	ps/nm	+100+/-3	+200+/-6	+300+/-10
Insertion Loss @1550nm	dB	≤ 2.2	≤ 3.3	≤ 5.0
Insertion Loss(Typical)	dB	1.6	2.8	3.4
PMD	ps	≤ 0.6	≤ 0.8	≤ 1.0
PMD(Typical)	ps	0.2	0.3	0.3
PDL	dBp-p	≤ 0.1	≤ 0.1	≤ 0.1
Connector type	-	As requested		
Dimensions	mm	224 x 238 x 45		

PMD is measured by the Jones Matrix method, average of wavelength scan from 1525 to 1565 nm, 1 nm increments.

Negative Dispersion Compensation Fiber Module

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	-	1.8×10^{-9}
Fiber effective area @1550nm	μm^2	17	-

Item	Unit	DC-C-N340	DC-C-N680	DC-C-N1020	DC-C-N1360
Dispersion @1550nm	ps/nm	-340+/-10	-680+/-20	-1020+/-30	-1360+/-40
Insertion Loss @1550nm	dB	≤ 3.9	≤ 5.8	≤ 7.7	≤ 9.6
Insertion Loss (Typ.)	dB	2.6	4.2	5.7	7.3
PMD	ps	≤ 0.7	≤ 1.0	≤ 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			

PMD is measured by the Jones Matrix method, average of wavelength scan from 1525 to 1565 nm, 1 nm increments.