

Wide band Slope Compensation DC Fiber Module

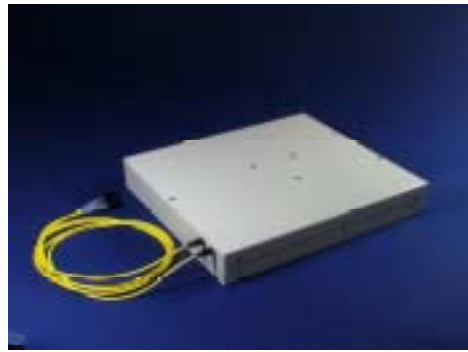
The Fujikura SC-DCF Module can compensate signal distortion due to an accumulated dispersion through the fiber transmission and upgrade the line for over 10 Gb/s per one wavelength in D-WDM system.

Features

- ✧ Low loss
- ✧ High FOM (Figure of Merit)
- ✧ C+L-band compensation
- ✧ Low PMD

Applications

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



Slope Compensation DC Fiber Module for C+L-band

Parameter	Unit	Min.	Max
Operating Wavelength	nm	1525	1615
Operating Temperature	degC	-5	70
Storage Temperature	degC	-20	75
SBS threshold	dBm	4	-
n_2/A_{eff}	1/W	-	1.7×10^{-9}
Fiber effective area @1550nm	μm^2	17	-
Fiber effective area @1590nm	μm^2	19	-

Item	Unit	DC-C+L- N330-UW	DC-C+L- N660-UW	DC-C+L- N990 -UW	DC-C+L- N1320 -UW
SMF G.652 (Typical)	km	20	40	60	80
Dispersion @1545nm	ps/nm	-330+/-10	-660+/-20	-990+/-30	-1320+/-40
Dispersion @1590nm	ps/nm	-380+/-15	-760+/-30	-1140+/-45	-1520+/-60
Dispersion Slope @1545nm (Typical)	ps/nm ²	-1.0	-2.0	-3.0	-4.0
Dispersion Slope @1590nm (Typical)	ps/nm ²	-1.1	-2.1	-3.2	-4.3
Ratio of Disp. & Disp. Slope @1545nm	nm ⁻¹	0.0030+/-20%(Standard), +/-10% available TBD for other ratio versions			
Ratio of Disp. & Disp. Slope @1590nm	nm ⁻¹	0.0028+/-20%(Standard), +/-10% available TBD for other ratio versions			
Insertion Loss @1550nm	dB	≤3.6	≤5.4	≤7.0	≤8.5
Insertion Loss @1590nm	dB	≤3.6	≤5.4	≤7.0	≤8.5
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			

PMD is measured by the Jones Matrix method, average of wavelength scan from 1525 to 1615 nm, 1 nm increments. Insertion loss is defined on the point wavelength of 1550nm and 1590nm.

Typical total dispersion with slope compensation DCF module

