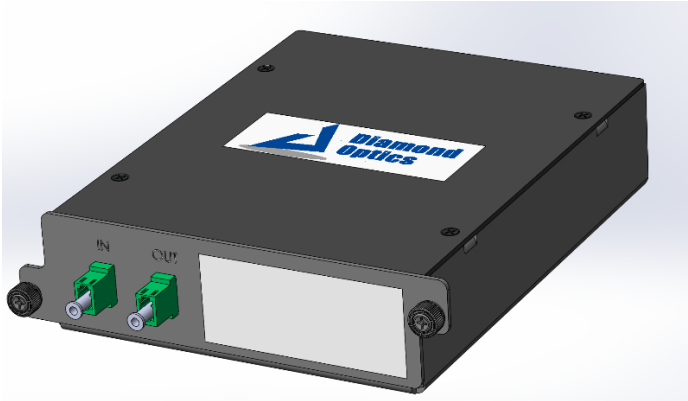


100G Tunable Dispersion Compensator Module



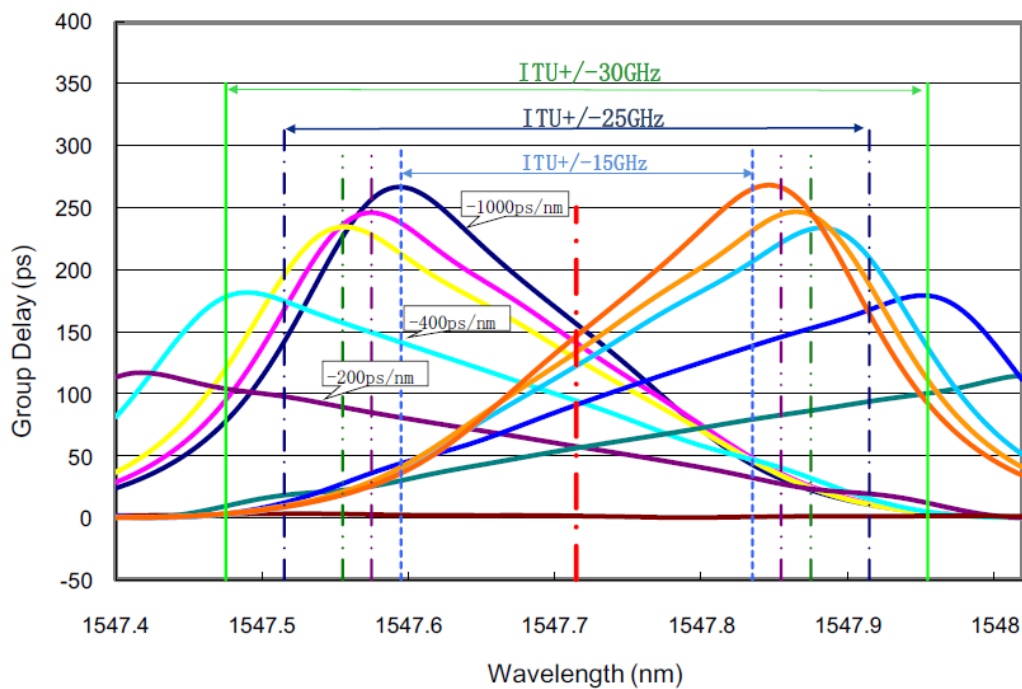
Features

- High-precision tuning with large dynamic range
- High-order dispersion (slope) compensation
- High-speed and smooth tuning
- Low IL and IL-Ripple
- Work at both 100G and 50G ITU-grid
- Small footprint fits in High Density Cassette system

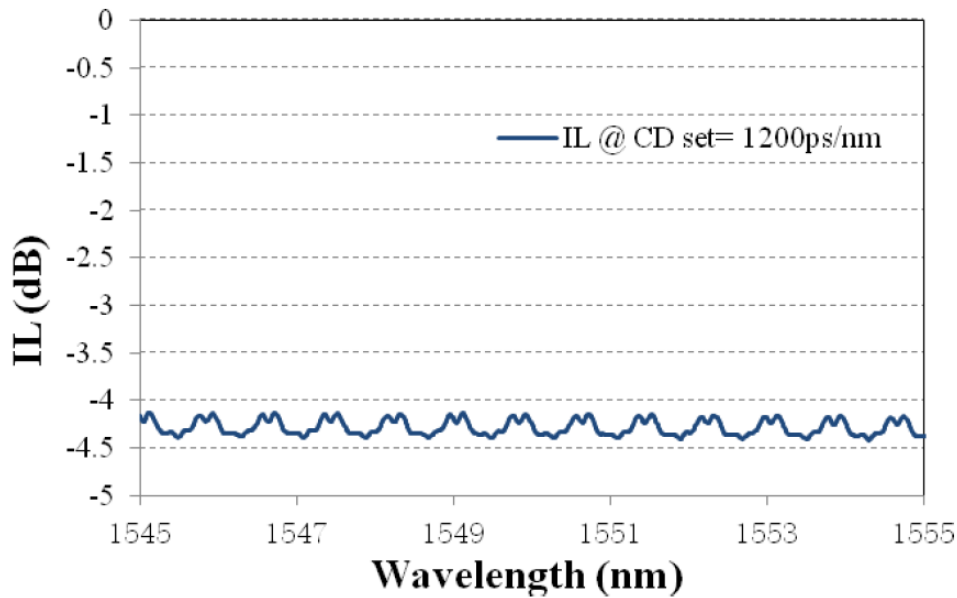
Applications

- Dynamic dispersion simulation/compensation
- Metro/Long-haul systems of 40Gb/s network
- Precision time-delay emulation /implementation

High precision dispersion management



Low insertion loss and ripple over C-Band



Dispersion Tuning Range (ps/nm)		Dispersion Bandwidth (GHz)		Group Delay Ripple peak-to-peak (ps)		Phase Ripple Stdv (rad)
Min.	Max.	Max.	Typ.	Max.	Typ.	Max.
-400	+400	60	5	10	0.05	0.15
-700	+700	40	5	15	0.05	0.15
-1200	+1200	25	5	15	0.05	0.15

Optical Parameters :

Wavelength range	C-band
Channel spacing	100GHz
Wavelength shift capability	Yes, shift 25GHz/50GHz/75GHz
Dispersion resolution	5ps/nm
IL	< 6dB
IL ripple within OB	< 0.5dB
Return loss	> 45dB
PDL	< 0.3dB
PMD	< 0.8ps
Input power	27dBm in max
Operating temperature	-5 ~ 65°C
Storage temperature	-40 ~ 85°C

Electrical parameters:

Control interface	RS232, I2C
Voltage	5V DC
Power consumption	Typ. 4.5W, Max. 8W
Tuning speed	Typ. 2sec, Max. 20sec
Electric connector	Samtec MTLW, Or Customizable

Ordering Information Options

	Description	Part Number Diamond	Part Number Telstra	Notes
MODULE,DISPERSION COMPENSATION 80KM	DC Bragg unit, up to 80Km Cassette. Mounts in 268/003 1 RU chassis for 19" rack mounting	241/0001-80 km	40011238	This module will compensate for Dispersion affects up to 1420 ps/nm IL=3.0dB 165 Deep X110 Wide X 38mm high
MODULE, DISPERSION COMPENSATION 120KM	DC Bragg unit, 120 Km Cassette. Mounts in 268/003 1 RU chassis for 19" rack mounting	241/0001- 120km	40011239	This module will compensate for Dispersion affects up to 2130 ps/nm IL=3.0dB 165 Deep X110 Wide X 38mm high
MODULE, DISPERSION COMPENSATION 140KM	DC Bragg unit, 140 Km Cassette. Mounts in 268/003 1 RU chassis for 19" rack mounting	241/0001- 140km	40011240	This module will compensate for Dispersion affects up to 2490 ps/nm IL=3.0dB 165 Deep X110 Wide X 38mm high
MODULE, DISPERSION COMPENSATION 160KM	DC Bragg unit,160 Km Cassette. Mounts in 268/003 1 RU chassis for 19" rack mounting	241/0001- 160km	40011241	This module will compensate for Dispersion affects up to 2840 ps/nm IL=3.0dB 165 Deep X110 Wide X 38mm high
MODULE, DISPERSION COMPENSATION 180KM	DC Bragg unit, 180 Km Cassette. Mounts in 268/003 1 RU chassis for 19" rack mounting	241/0001- 180km	40011242	This module will compensate for Dispersion affects up to 3200 ps/nm IL=3.0dB 165 Deep X110 Wide X 38mm high
MODULE, DISPERSION COMPENSATION 200KM	DC Bragg unit, 200 Km Cassette. Mounts in 268/003 1 RU chassis for 19" rack mounting	241/0001- 200km	40011243	This module will compensate for Dispersion affects up to 3550vps/nm IL=3.0dB 165 Deep X110 Wide X 38mm high
MODULE, DISPERSION COMPENSATION 220KM	DC Bragg unit, 220 Km Cassette. Mounts in 268/003 1 RU chassis for 19" rack mounting	241/0001- 220km	40011244	This module will compensate for Dispersion affects up to 3850vps/nm IL=3.0dB 165 Deep X110 Wide X 38mm high

Dispersion Tuning Range Option:

100: ±400 ps/nm
200: ±700 ps/nm
300: ±1200 ps/nm

Channel spacing Option:

010:100G
020:50G
030:Others

Wavelength shift Option:

001:25G
002:50G

003:75G
004:Others