

Features

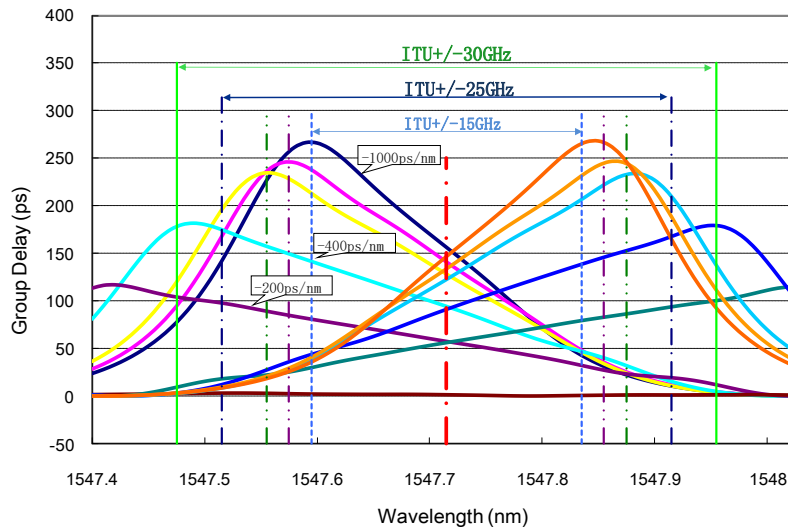
- High-precision tuning with large dynamic range
- High-order dispersion (slope) compensation
- High-speed and smooth tuning
- Low IL and IL-Ripple
- Work at all 50G ITU-grid
- Small footprint (90mm x 70mm x 16mm)

Applications

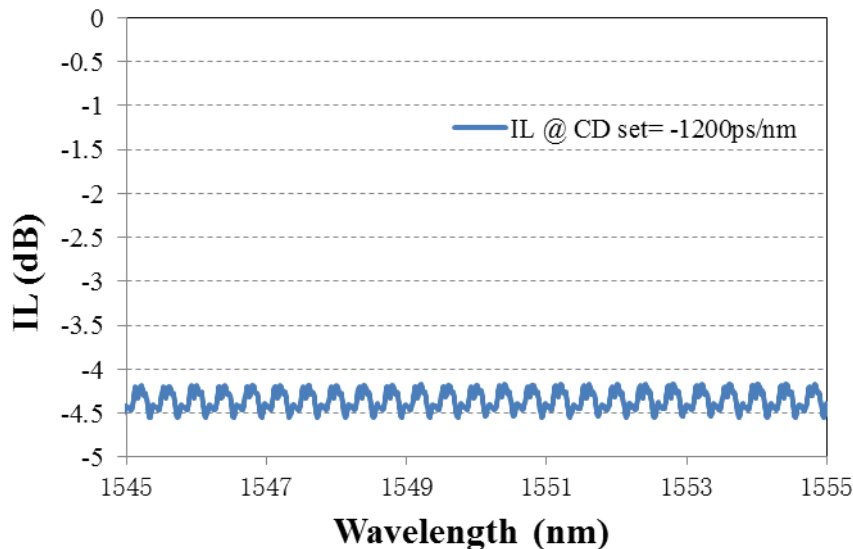
- Dynamic dispersion simulation/compensation
- Metro/Long-haul systems of 40Gb/s network
- Precision time-delay emulation /implementation



High precision dispersion management



Low insertion loss and ripple over C-Band





50GHz Tunable Dispersion Compensator Module

Advanced Component for 40Gb/s Optical Network

Specifications

Dispersion category:

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	40	5	10	0.05	0.15
-700	+700	36	5	15	0.05	0.15
-1200	+1200	25	5	15	0.05	0.15

Optical parameters:

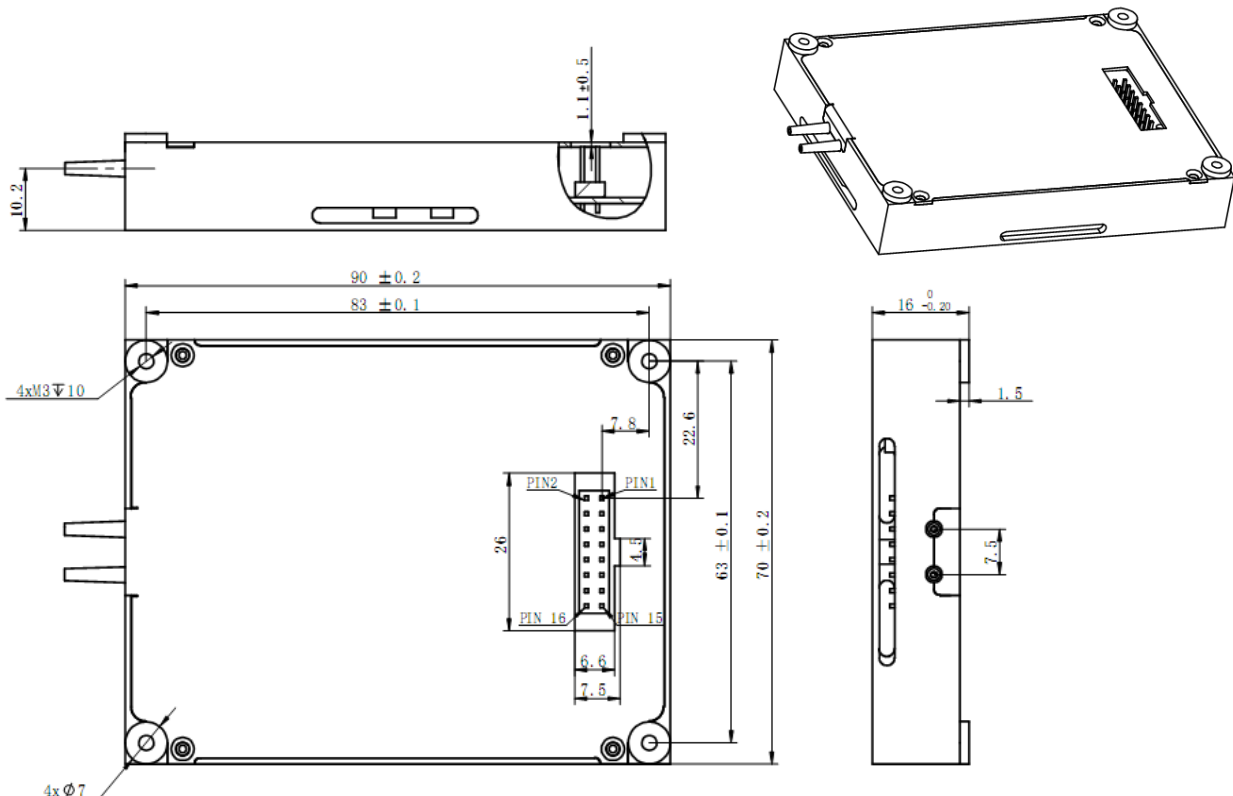
Wavelength range	C-band
Channel spacing	50GHz
Wavelength shift capability	Yes, shift 25GHz
Dispersion resolution	5ps/nm
IL	< 6dB
IL ripple within OB	< 0.5dB
Return loss	> 45dB
PDL	< 0.3dB
PMD	< 0.8ps
Input power	27dBm in max
Operating temperature	-5 ~ 65°C
Storage temperature	-40 ~ 85°C

Electrical parameters:

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

Dimensions drawing (units: mm)

Dimensions	90*70*16mm (90*70*12.5 as minimum)
Fiber Length	1m or Customizable
Optical connector type	Customizable





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Ordering information (Example: PCDT1-11001221)

PCDT						
RoHS Compliance	Dispersion Tuning Range	Channel spacing	Wavelength shift	Fiber Type	Fiber Length	Connector Type
0、Non-compliant	1、±400 ps/nm	1、100G	1、25G	1、250um Fiber	1、0.5+/-0.1m	0、No connector
1、Compliant	2、±700 ps/nm	2、50G	2、50G	2、900um Fiber	2、1.0+/-0.1m	1、FC/UPC
	3、±1200 ps/nm	3、Others	3、75G	3、Others	3、Others	2、FC/APC
	4、Others		3、Others			3、SC/UPC
						4、SC/APC
						5、Others

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