

Features

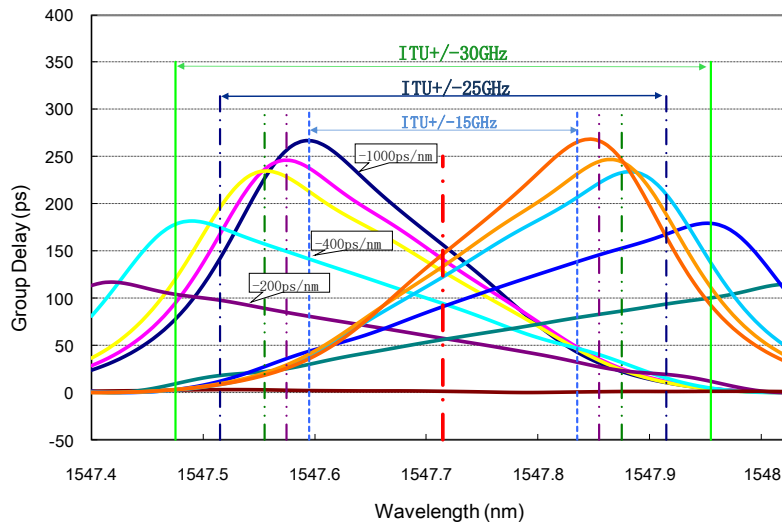
- High-precision tuning with large dynamic range
- High-order dispersion (slope) compensation
- High-speed and smooth tuning
- Low IL and IL-Ripple
- Work at both 100G and 50G ITU-grid
- Small footprint (90mm x 70mm x 16mm)

Applications

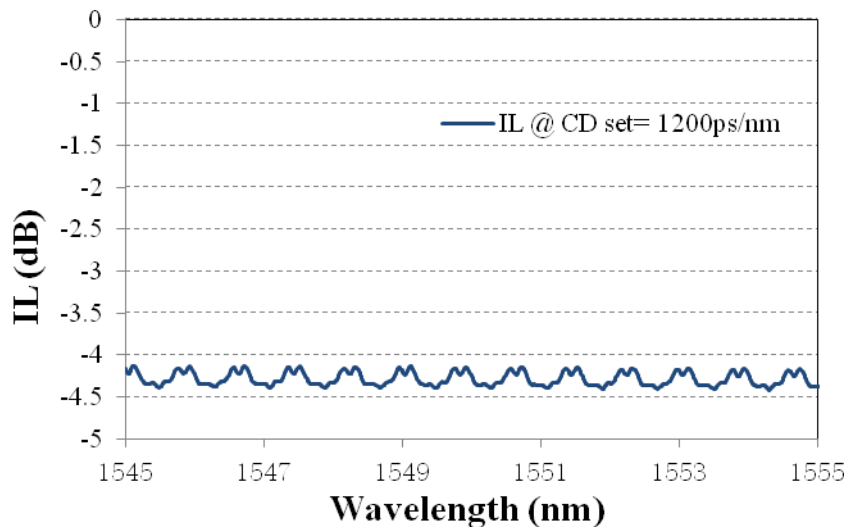
- Dynamic dispersion simulation/compensation
- Metro/Long-haul systems of 40Gb/s network
- Precision time-delay emulation /implementation



High precision dispersion management



Low insertion loss and ripple over C-Band





100GHz 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	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:

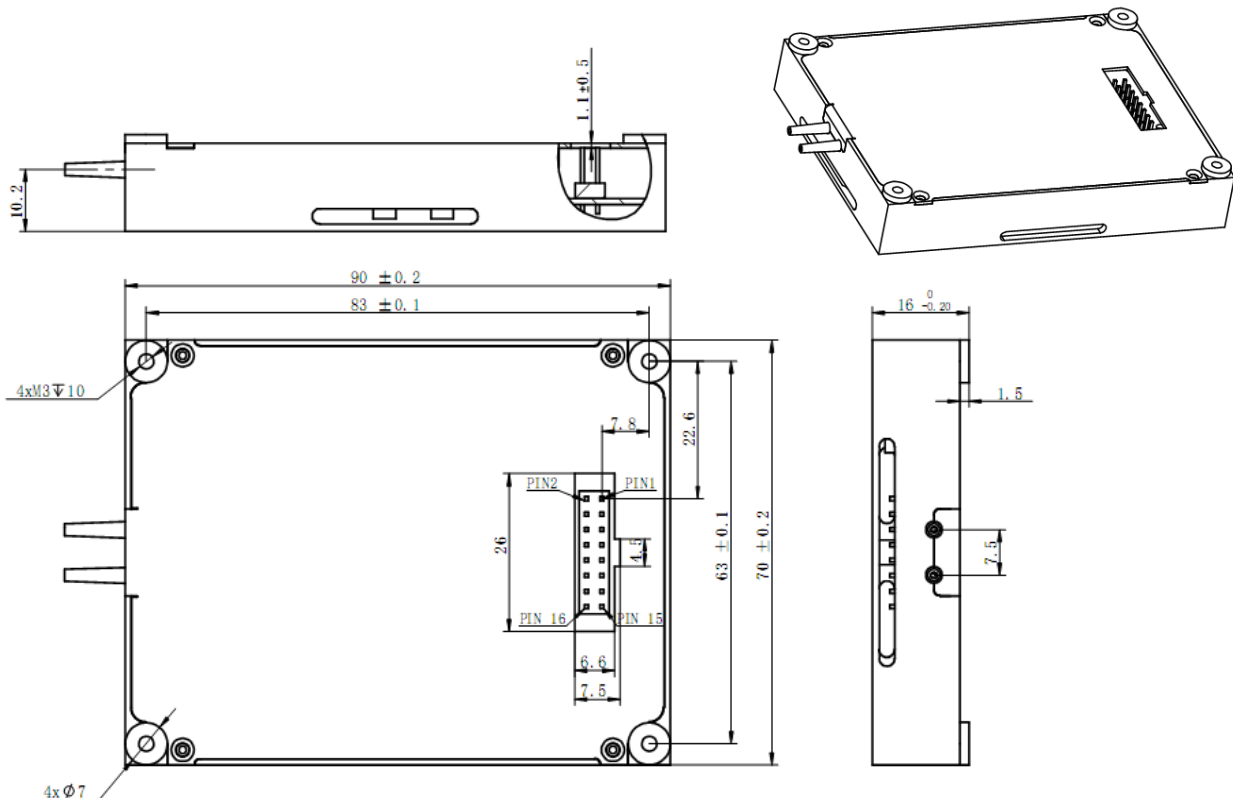
Wavelength range	C-band
Channel spacing	100GHz
Wavelength shift capability	Yes, shift 25GHz/50GHz/75GHz
Dispersion resolution	5ps/nm
IL	< 6dB
IL ripple within OB	< 0.5dB
Return loss	> 45dB
PDL	< 0.3dB
PMD	< 0.8ps
Input power	27dBm in max
Operating temperature	-5 ~ 65°C
Storage temperature	-40 ~ 85°C

Electrical parameters:

Control interface	RS232, 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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