



Fixed PMD Compensator

I&Optics' fixed polarization mode dispersion compensator can provide precision delay between two orthogonal polarization modes and so compensate the mode delay in system. It features precise mode delay, low insertion loss and low insertion loss variation. It can be used in lasers, LiDARs, telecom, sensors, OCTs, testing systems and R&D.

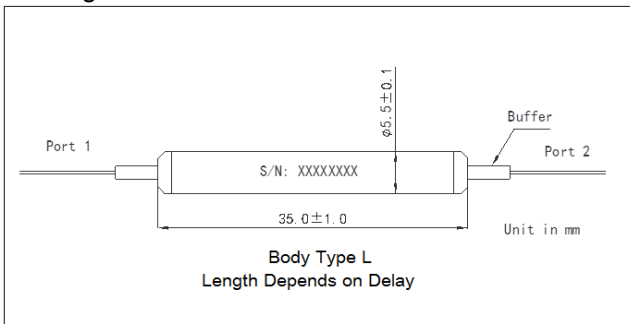
Specification

Parameter	Test Condition	Unit	Value
Port Configuration	-	-	1x1
Nominal Center Wavelength	-	nm	1310, 1550 or Specify
Wavelength Range	-	nm	+/-40
Max. Insertion Loss	at Center Wavelength	dB	0.5, Typ. 0.3
Max. Loss Variation	at Center Wavelength	dB	0.1
Nominal Mode Delay	-	fs	20~20K
Nominal Delay Precision	-	fs	20
Min. Extinction Ratio	at 23°C, Slow Axis of Input to Fast Axis of Output	dB	21, Typ. 23
Max. PDL	at 23°C	dB	0.1
Min. Return Loss	-	dB	55
Max. Power Handling Rate	Continuous Wave, Proper SOP	mW	500 or Specify
Fiber Type	-	-	SMF-28e or PM 1550 Panda Fiber or Specify
Max. Fiber Tensile Load	-	N	5
Operating Temperature	-	°C	-5 to 70
Storage Temperature	-	°C	-40 to 85

Above values are for device without connectors. For device with connectors, IL will be 0.5dB higher, ER will be 2dB lower and return loss will 5dB lower.

The default alignment of working polarization and connector key is to slow axis of fiber. Special requirement please call. It is recommended to keep the fiber lengths of both input and output fiber equal or similar to each other.

Package Dimensions



Detailed dimensions for package type S please contact us. We are very pleased to do our best to provide customized package for optimizing.

Ordering Informations

FPMDC-①-②-③-④-⑤-⑥

① - Center Wavelength

31 - 1310nm

55 - 1550nm

SS - Specify

③ - Fiber Type on Port 1/2

1 - SMF-28e Fiber

2 - PM 1300 Panda Fiber

3 - PM 1550 Panda Fiber

⑤ - Fiber Jacket on Port 1/2

B - Bare Fiber

L - 900um Loose Tube

② - Package Type

L - Dia. 5.5 x L

S - Fiber Spool

④ - Connector Type on port 1/2

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

⑥ - Fiber Length

0.8 - 0.8m