



## Manual Variable Fiber Delay Line

I&Optics' variable fiber delay line can provide precision delay by changing the optical path length ranging up to 150mm (~500ps). It features continuous precision delay, low insertion loss and insertion loss variation due to our unique technology. 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	1.0, Typ. 0.6
Max. Loss Variation	at Center Wavelength	dB	0.5
Nominal Optical Delay Range	-	ps	500
Nominal Zero Delay Offset	-	ps	330
Readout Scale Resolution	-	mm	0.1
Min. Extinction Ratio	at 23°C, only for PM Fiber	dB	21, Typ. 23 for B-Type, 25, Typ. 30 for F-Type
Max. PDL	at 23°C, only for SM Fiber	dB	0.1
Min. Return Loss	-	dB	50
Max. Power Handling Rate	Continuous Wave, Proper SOP	mW	300 or Specify
Fiber Type	-	-	SMF-28e or PM Panda Fiber or Specify
Max. Fiber Tensile Load	-	N	5
Operating Temperature	-	°C	-5 to 50
Storage Temperature	-	°C	-40 to 85

Above values are for device without connectors. For device with connectors, IL will be 0.3dB 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.

### Package Dimensions

Main Body Size: W42.0xH30.0xL140.0mm

Detailed Informations And Dimensions Please Contact Us. Customized Design Is Available Upon Request.

### Ordering Informations

MVFDL-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

⑥ - Fiber Length

0.8 - 0.8m

② - Operating Axis Type

B - Both Axes Working

F - Fast Axis Blocked

N - for SMF-28e Fiber

④ - Connector Type on port 1/2

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC