



## Manual Variable Fiber Isolated Delay Line

I&Optics' variable fiber delay line can provide precision delay by changing the optical path length ranging up to 150mm (~500ps), meanwhile, it integrates an isolator and so it can block the backward light. It features high isolation, continuous precision delay, low insertion loss and insertion loss variation due to our unique technology. It can be used in lasers, LiDARs, sensors, testing systems and R&D.

### Specification

Parameter	Test Condition	Unit	Value
Port Configuration	-	-	1x1
Nominal Center Wavelength	-	nm	2000 or Specify
Wavelength Range	-	nm	+/-40
Max. Insertion Loss	at Center Wavelength	dB	1.5, Typ. 1.0
Max. Loss Variation	at Center Wavelength	dB	0.5
Min. Isolation	-	dB	25, Typ. Peak 35
Nominal Optical Delay Range	-	ps	500
Nominal Zero Delay Offset	-	ps	330
Readout Scale Resolution	-	mm	0.5
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	0.15
Min. Return Loss	-	dB	50
Max. Power Handling Rate	Continuous Wave, Proper SOP	mW	300 or Specify
Fiber Type	-	-	Single Mode Fiber 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

MVFIDL-①-②-③-④-⑤-⑥

① - Center Wavelength

20 - 2000nm

SS - Specify

② - Operating Axis Type

B - Both Axes Working

F - Fast Axis Blocked

N - for SM Fiber

③ - Fiber Type on Port 1/2

1 - SMF-28e Fiber

2 - SM 1950 Fiber

3 - PM 1550 Panda Fiber

4 - PM 1950 Panda Fiber

④ - Connector Type on port 1/2

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

⑤ - Fiber Jacket on Port 1/2

B - Bare Fiber

L - 900um Loose Tube

⑥ - Fiber Length

0.8 - 0.8m