

Manual Variable Optical Delay

(SM, PM, Bidirectional)

Product Description

The Manual Variable Optical Time Delay features long range up to 1200 ps and low cost. It consists two collimators and a movable reflector controlled by a precision manual stage. Light from an input fiber collimator projects into free space and is collected by an output fiber collimator. The distance the light travels in free space is varied by the movable reflector and displayed digitally with a position encoder.



Performance Specifications

Parameter	Min	Typical	Max	Unit
Operation Wavelength	400	1550	2000	nm
Insertion Loss ^[1]	330ps	1.0	1.5	dB
	600ps	1.0	1.8	
	1200ps	1.5	2.8	
Return Loss	45			dB
PDL			0.2	dB
Max Switching speed		30		mm/s
Time Delay Range	330	600	1200	ps
Resolution		130/8		fs
Polarization Extinction Ratio ^[2]	18	22	25	dB
Optical Power Handling		500		mW
Durability (Life cycle)	10 ⁷			
Operating Temperature	0		70	°C
Storage Temperature	-40		85	°C
Fiber Type	SM or PM			
Control Interface	USB			

[1]. Exclude connectors, Measured at 1550 nm
 [2]. For PM version only

Features

- Low Cost
- Low Loss
- Fast
- Wide Range
- High Resolution
- High Reliability
- Easy to Use

Applications

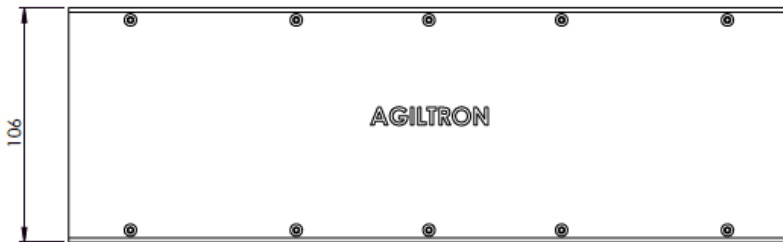
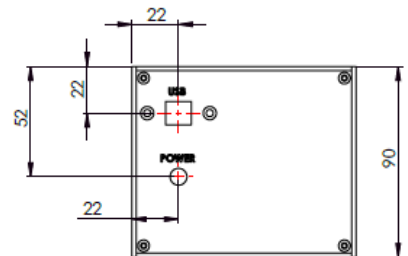
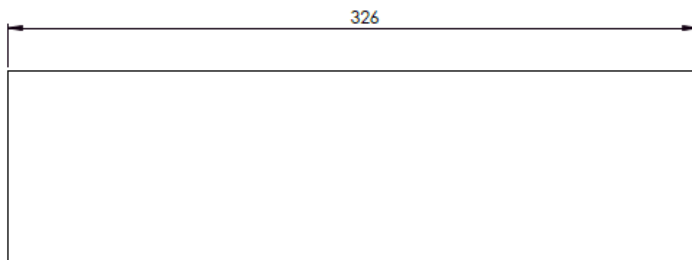
- PMD Compensation
- OCT
- Interferometer
- Spectroscopy
- Lab use

Manual Variable Optical Delay

Electrical Driving Requirement

Computer controlling kit with USB and RS232 interfaces and Windows™ GUI software

Mechanical Dimensions (Unit: mm)



Ordering Information

MDTD-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Type	Wavelength	Minimum Step	Package	Fiber Type		Delay Range	Connector	
	Manual =02 Special=00	1060=1 2000=2 1310=3 1480=4 1550=5 1625=6 780=7 850=8 650=E 1565-1620=L Special=0	170fs = 1		SM28 = 1 PM1550=5 Special=0	3mm tube =4 900um tube=3 Special=0	330ps= 1 600ps =2 1200ps =3	None=1 FC/PC=2 FC/APC=3 SC/PC=4 SC/APC=5 ST/PC=6 LC/PC=7 LC/APC=8 Special=0	