

50.6m Nanosecond Fiber Delay Line



- **Product Description**

Compact, low-loss fiber coils made by Idealphotonics requires attention, precision, and skill. Our F-TDC Compact time delay coils feature a proprietary manufacturing process that provides extremely low insertion loss while fitting your budget and small space.

- **Product features**

Compact size、 Low insertion loss、 Choose your own delay length、 Sturdy construction、 Easy to use

● Part Number

MP-ODL-50.6-SA

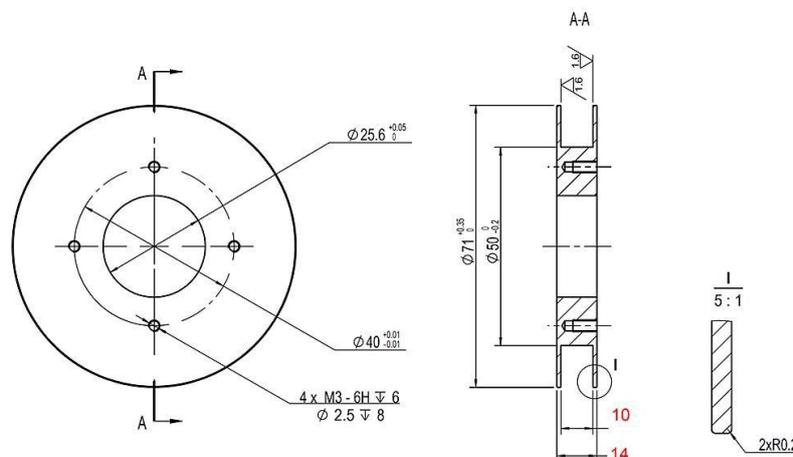
● Application area

Optical Buffers for Optical Networks、 Gyroscopes, Sensors, and Signal Processing、 Radar and instrument calibration、 Laser spectroscopy、 Time Delay of Optoelectronic Oscillator、 Nonlinear Fiber Loop、 Fiber Optic Network Testing and Analysis、 Optical packet switching, buffering, routing and input / output synchronization

● Core parameters

Operating wavelength	Fiber type
1260~1700 nm	FC/APC

● Dimension Drawing



● General Parameters

Parameter	Symbol	Min. Value	Typ. Value	Max. Value	Unit
Fiber length	L	10	500	5000	m
Typical loss	IL	0.1	0.2	0.3	dB/km
Operating wavelength	λ	1260	1500	1700	nm
Operating temperature	T	-40	25	85	°C
Fiber type		HI1060/SMF-28E/PM1550(Optional)			
Operating power	Pf	500	1000	5000	mW
Frame size	Customize				
Connector type	FC/APC or FC/PC				
Fiber delay range	Depends on fiber length *				

Note

* Calculate the required delay length

To calculate the required fiber length to obtain a specific time delay, use the following formula: $L = c \Delta t / n$, where c is the speed of light in a vacuum, Δt represents the expected time delay, n represents the refractive index of fused silica at the relevant wavelength (at 1310 nm At $n = 1.4677$ at 1550 nm , $n = 1.4682$).



Ordering Info

MP-ODL-L□□□□-XX

L□□□□ : Length

0010: 10m

0100:100m

1000:1000m

XX: Fiber and connector types

SN=SMF-28E Fiber + None

SA=SMF-28E Fiber + FC/APC

SP=SMF-28E Fiber + FC/PC

PP=PM Fiber Fiber + FC/PC

PA=PM Fiber Fiber + FC/APC