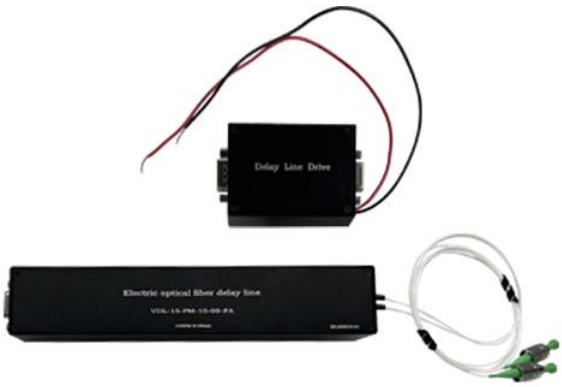
Stepwise Adjustable Fiber Delay Line

Features

- Reflective optical path structure
- External stepper motor
- High-resolution stepping mode
- Low insertion loss and full-range insertion loss variation
- Built-in fiber sliding groove to avoid fiber movement interference
- Stainless steel U-shaped frame for higher structural stability



Applications

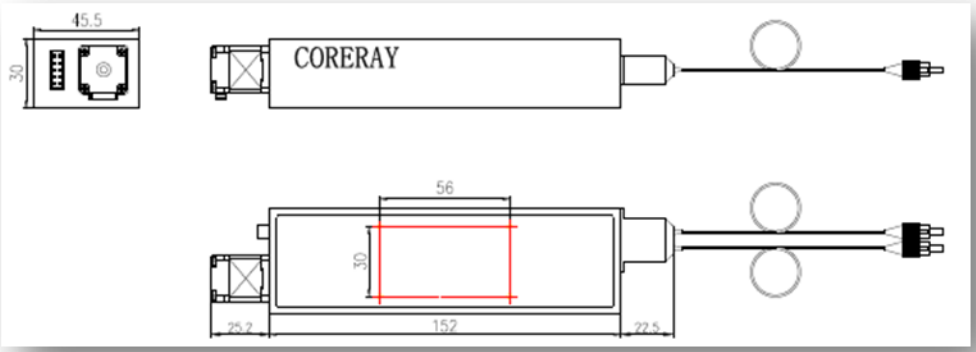
- Optical Coherence Tomography (OCT)
- Optical Fourier Spectral Analysis
- Optical (Fiber) Interferometers and Fibering Systems
- Optical Phase Delay Generation and Measurement
- Optical Time Division Multiplexing (OTDM)

The fiber optic delay line module is a functional device with optical path delay. It has high working frequency, large bandwidth, low loss, simple structure easy to achieve multi-bit delay, strong resistance to electromagnetic interference, good confidentiality, light weight and high cost performance. It is widely used in important fields such as and national defense.

Specifications

Type		COC-VDL	
Fiber optic types	nm	Single-mode fiber	Polarization maintaining fiber
wavelength range	nm	C/L（Customizable）	
Range of light delay	ps	0~100 Continuously adjustable	0~660Continuously adjustable
		0~330 Continuously adjustable	0~1500Continuously adjustable
Resolution	ps	0.02	
Insertion loss	dB	<1.2	<1.8
Change in loss	dB	+-0.5	+-1.0
Echo loss	dB	>55	
Extinction Ratio1	dB	⩾18	
Maximum optical power	mW	1000	
Working voltage	V	5	
Working temperature	℃	-20~+70	
size	mm	81*45.5*30（100ps）	116*45.5*30（330ps）
		152*45.5*30（660ps）	291*45.5*30（1500ps）

Overall



Ordering Information: COC-VDL-A-B-C-D-E-F

A	B	C	D	E	F
Delay quantity	Operating wavelength	Fiber optic types	Fiber optic length	Protective tube type	Connector
10:100ps 33:330ps 66:660ps	85:850nm 13:1310nm 15:1550nm 10:1064nm	SM：9/125um M5:50/125um M6:62.5/125um PM:PM fiber Hi10:HI1060 Hi07:Hi780	05:0.5m 10:1.0m 15:1.5m	00： 09:0.9mm 20:2mm 30:3mm	00： FP：FC/PC FA：FC/APC SP：SC/PC SA：SC/APC LP：LC/PC LA：LC/APC ST： ST/PC