Variable Optical Delay Line (VDL Series)

Rev 11I

Description

Variable Optical Delay Line provides precision optical path variation of more than 15 cm (500 ps). The compact, rugged design makes the device ideal for integration in network equipment, test instruments, and optical for integration in network equipment, test instruments, and optical coherence tomography (OCT) systems for precision optical path length or timing alignment.

Key Features

- High Resolution

Applications

- Equipment

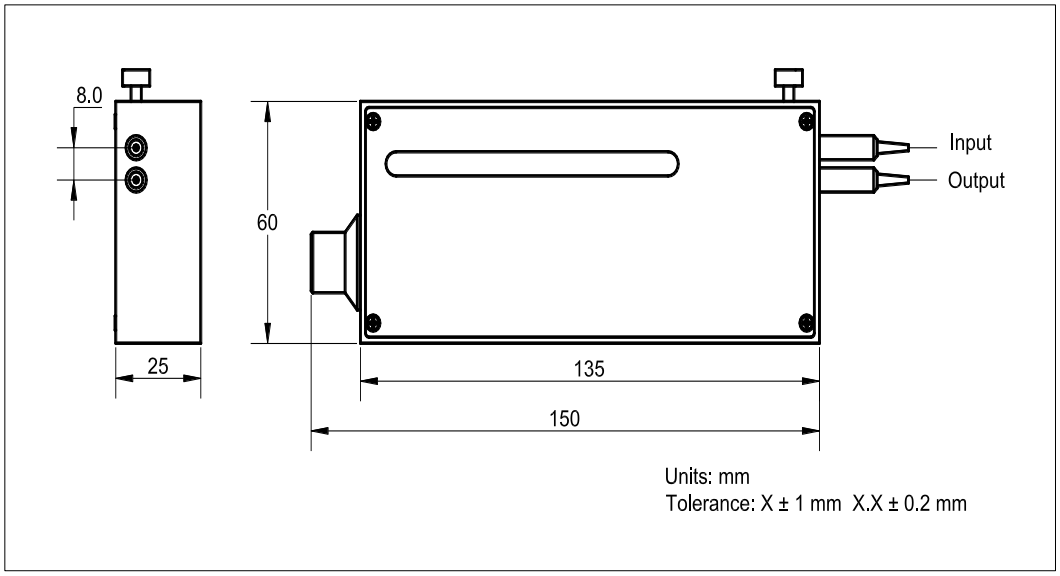
Specifications

Parameter	Unit	Values
Center Wavelength (λc)	nm	1060 or 1550
Operation Wavelength	nm	λc ± 50
Optical Delay Range	ps	0 - 500 ps continuous
Zero Point Delay Offset[2]	ps	~ 440
Readout Scale Resolution	mm	0.04
Max. Insertion Loss	dB	1.2
Max. Insertion Loss Variation	dB	0.5
Max. Polarization Dependent Loss,	dB	0.1
Min. Extinction Ratio (for PM Model)	dB	20
Min. Return Loss	dB	50
Max. Optical Power Handling (Continuous Wave)	mw	300
Operating Temperature	℃	0 to + 40
Storage Temperature	℃	- 40 to + 60
Fiber Type	-	Singlemode or PM Panda Fiber

[1]IL is 0.5 dB higher, RL is 5 dB lower and ER is 2 dB lower for each connector added, measured at center wavelength.

[2]Absolute delay at 0 ps setting measured to the edge of the enclosure (excluding caps, boots, and pigtails).

Package Dimensions



Ordering Information

VDL-①①①①-②②②-③-④-⑤-⑥-⑦

①①①①: Wavelength

1060 - 1060 nm

1310 - 1310 nm

1550 - 1550 nm

②②②: Delay Range

500 - 500 ps

③: Attenuator

A - Attenuator

N - None

④: Connector Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

S - Specify

⑤: Fiber Jacket

B - 250 μm Bare Fiber

L - 900 μm Loose Tube

3 - 3 mm Cable

S - Specify

⑥: Fiber Length

1 - 1.0 m

S - Specify

⑦: Fiber Type

S - Singlemode Fiber

P - PM Panda Fiber