Variable Optical Delay Line (VDL Series)

Rev 11

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.

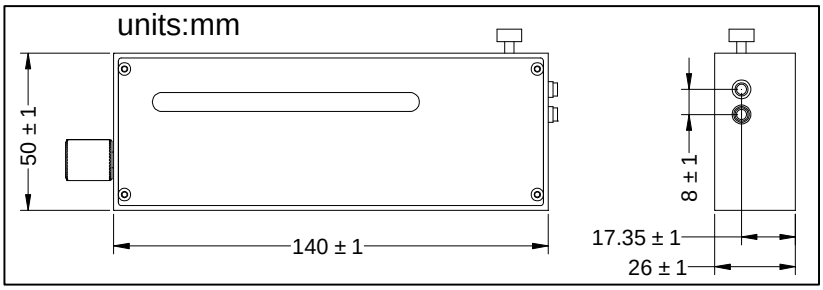
Specifications

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**	ps	440
Readout Scale Resolution	mm	1.0
Max. Insertion Loss	dB	1.0
Max. Insertion Loss Variation	dB	0.5
Max. PDL	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		SMF-28 or HI 1060 or PM Panda fiber
Dimensions	mm	50 × 140 × 26

*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

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

Package Dimensions



Ordering Information

VDL-①①-②②-③③-④-⑤-⑥-⑦

①①: Wavelength
06 - 1060 nm
55 - 1550 nm
SS - Specify

②②: Delay Range
50 - 500 ps
SS - Specify

③③: Fiber Type
M - SMF-28 fiber
H - HI 1060 fiber
P - PM fiber

④: Drive Mode
M - Manual

⑤: Attenuator
A - Attenuator
N - None

⑥: Connector Type
1 - FC/UPC
2 - FC/APC
3 - SC/UPC
4 - SC/APC
N - None
S - Specify

⑦: Fiber Jacket
B - 250 μm bare fiber
L - 900 μm loose tube
C - 3 mm cable
S - Specify

⑧: Fiber Length
1 - 1.0 m
S - Specify