



Variable Optical Delay Line (VDL Series)

Rev 11H

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 coherence tomography (OCT) systems for precision optical path length or timing alignment.

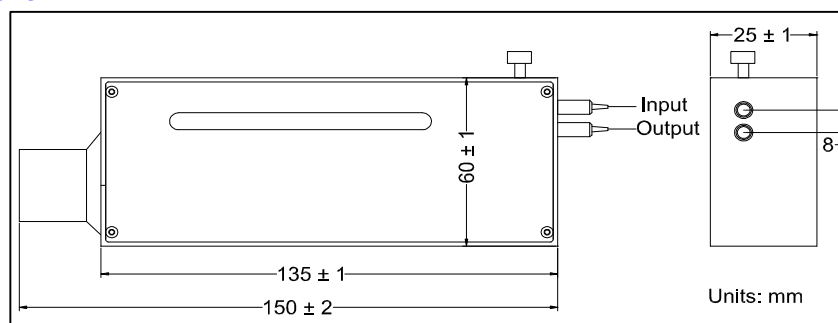
Specifications

| Parameter | Unit | Values |
|---|------|------------------------------|
| Center Wavelength (λ_c) | nm | 1060, 1550 |
| Operation Wavelength | nm | $\lambda_c \pm 50$ |
| Optical Delay Range | ps | 0 - 500 ps Continuous |
| Zero Point Delay Offset | ps | ~ 440 |
| Readout Scale Resolution | mm | 0.02 |
| Max. Insertion Loss | dB | 1.2 |
| 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 | °C | 0 to + 40 |
| Storage Temperature | °C | - 40 to + 60 |
| Fiber Type | - | Singlemode or PM Panda Fiber |

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

²Absolute 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 | ②②②: Delay Range | ③: Attenuator | ④: Connector Type |
| 1060 - 1060 nm | 500 - 500 ps | A - Attenuator | 1 - FC/UPC 4 - SC/APC |
| 1310 - 1310 nm | | N - None | 2 - FC/APC N - None |
| 1550 - 1550 nm | | | 3 - SC/UPC S - Specify |
| ⑤: Fiber Jacket | ⑥: Fiber Length | ⑦: Fiber Type | |
| B - 250 μ m Bare Fiber | 1 - 1.0 m | S - Singlemode Fiber | |
| L - 900 μ m Loose Tube | S - Specify | P - PM Panda Fiber | |
| 3 - 3 mm Cable | | | |
| S - Specify | | | |

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