

0706 Optical Delay Line



Motorized Variable Optical Delay Line

Motorized variable optical delay line provides precision optical path length adjustment of up to 500 ps. Driven by a stepping motor, D1000 has a delay resolution about 10 μ m(34 fs). In addition, its advanced motion design guarantees longevity for long-term continuous operation. Low insertion loss and high reliability make this device ideal for integration in Optical Coherence Tomography (OCT) systems, network equipment and test instruments for precision optical path length control or timing alignment.

FEATURES

- Low Insertion Loss
- High Reliability
- Longevity for Long-Term Continuous Operation

USE IN

- Optical Coherence Tomography (OCT) Systems
- Test Instruments
- Network Equipment

Center Wavelength (λ_c)	1060 nm or 1550 nm
Operation Wavelength	$\lambda_c \pm 40$ nm
Optical Delay Range	0 to 500 ps Continuousps
Zero Point Delay Offset	440 ps
Optical Delay Resolution	10 μ m or 34 fs per Encoder Count
Max. Insertion Loss	1.2 dB
Max. Insertion Loss Variation	0.5 dB
Max. PDL	0.1 dB
Min. Extinction Ratio (for PM Model)	18 dB
Min. Return Loss	50 dB
Max. Optical Power Handling (Continuous Wave)	300 mW
Electrical Interface	2-Phase Stepper Motor Drive Signal 2 Sensor Connections
Operating Temperature	0 to +40°C
Storage Temperature	-20°C to +60°C
Fiber Type	Singlemode or PM Panda Fiber
Dimensions	60x150x23 mm