sales@wdmquest.com
www.wdmquest.com

0805 Optical Delay Line

D1000

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 μm(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 (λc)	1060 nm or 1550 nm
Operation Wavelength	λc±40 nm
Optical Delay Range	0 to 500 ps Continuousps
Zero Point Delay Offset	440 ps
Optical Delay Resolution	10 μm or 34 fs per Encoder Count
Insertion Loss	1.2 dB max.
Insertion Loss Variation	0.5 dB max.
PDL	0.1 dB max.
Extinction Ratio (for PM Model)	18 dB min.
Return Loss	50 dB min.
Power Handling (Continuous Wave)	300 mW max.
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	SM or PM Panda Fiber
Dimension	60x150x23 mm

Order notes to our customers: **The default parameters are as follows. For special needs, please contact sales.**

1) Connector FC/APC, 900 um, 1 m by default for all devices except for high power devices.

2) Slow axis working, fast axis blocked, connector key is aligned to slow axis by default for PM devices.