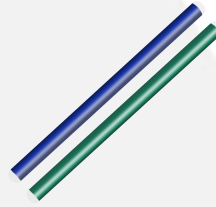


## MZI1000-S



### ALL-Fiber Mach-Zehnder Interferometer

The all-fiber Mach-Zehnder interferometer is comprised by two fiber optic couplers fused in series on two parallel single-mode optical fibers, is an instrument used to make precise optical measurements. It can demonstrate interference by the phase shift between the split beam and the measurement beam.

MZI Interferometer

MZI Interferometer

#### FEATURES

- Sharper Selectivity Wavelength Response
- High Spectral Response
- 50% Coupling Ratio
- Low Insertion Loss
- More Sensitive to Outside Environmental Influences
- Smaller and Mechanically More Stable
- Comb Filtering Characteristics

#### USE IN

- Sensing Applications
- Dense Wavelength Division Multiplexing
- Demultiplexing Applications
- Optical Communication

#### FUNCTIONAL DIAGRAM





## 0704 Fiber Mach-Zehnder Interferometer

MZF  
Interferometer

MZF  
Interferometer

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FSR	7.92 GHz
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Center Frequency Jitter Due to Polarization	130.4 MHz max.
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3 dB Bandwidth (FWHM)	3.95 GHz
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Insertion Loss at the Center Wavelengths	0.17 dB max.
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Extinction Ratio	23.96 dB min.
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PDL at the Center Wavelength	0.01 dB max.
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PDL at the -3 dB Point	0.45 dB max.
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Length of Short Path	208.5 mm
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Length of Long Path	234.4 mm
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