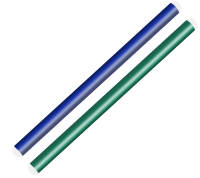


# 0803 Fiber Mach-Zehnder Interferometer

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.

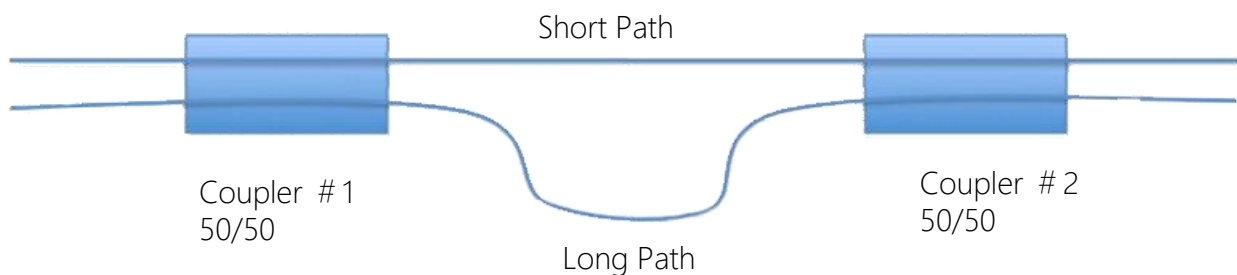
### FEATURES

- 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



FSR	7.92 GHz
Center Frequency Jitter Due to Polarization	130.4 MHz max.
3 dB Bandwidth (FWHM)	3.95 GHz
Insertion Loss at the Center Wavelengths	0.2 dB max.
Extinction Ratio	20 dB min.
PDL at the Center Wavelength	0.1 dB max.
PDL at the -3 dB Point	0.5 dB max.
Length of Short Path	208.5 mm
Length of Long Path	234.4 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.**