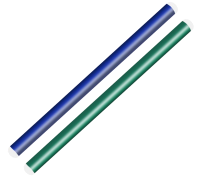


0703 Fiber Mach-Zehnder Interferometer



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.

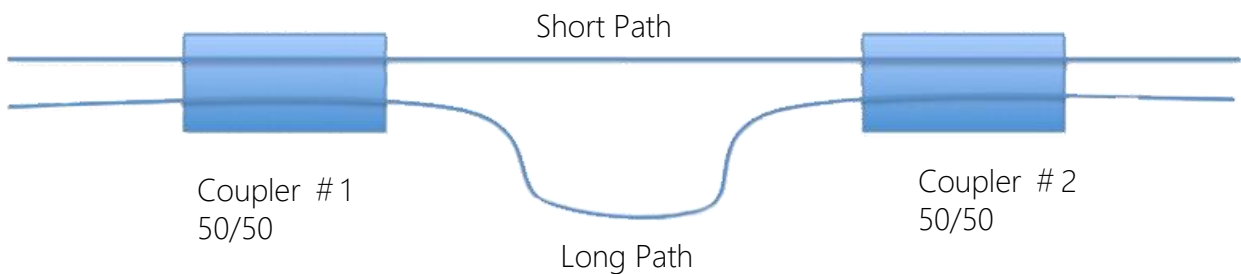
FEATURES

- 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
- Demultiplexing Applications
- Dense Wavelength Division Multiplexing
- 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	0.17 dB max.
Extinction Ratio	23.96 dB min.
PDL at the Center Wavelength	0.01 dB max.
PDL at the -3 dB Point	0.45 dB max.
Length of Short Path	208.5 mm
Length of Long Path	234.4 mm