Mach-Zehnder interferometer 1225-1375nm

Product Description

The Mach-Zehnder interferometer is used in scanning OCT systems. It contains a fixed-arm difference MZI and a low-noise photoelectric balanced detector. The balanced detector in the module is used to provide the K clock signal. Different wavelengths and different arm differences can be customized according to different customer needs. The module is designed with shock absorption and heat insulation to ensure the stability of the module to the maximum extent.

Product features

Customizable different wavelengths 、 Customizable different arm difference MZI、 With balanced detector output、 Shock absorption and heat insulation design、 Compact structure

Part Number

MP-OL-MZI-1300

Application area

Optical coherence tomography、 Other related fields

Core parameters

Wavelength	Detector Bandwidth	Fiber Interface
1225-1375nm	200MHz	FC/APC

General Parameters

Parameter

Wavelength	1225-1375nm
Free spectral range MZI output	103.3GHz±5%
MZI two-arm difference	2mm (other arm differences can be customized)

Fiber type	SMF-28 (PM optional)
Fiber interface	FC/APC
Detector type	InGaAs / PIN
Detector wavelength	800 - 1700nm
Balanced detector bandwidth	200MHz
Saturated power	50mW@1300nm
Connector	SMA
Operating voltage/current	5V/0.5A（max）
Dimensions	120*100*25mm