

## Dichroic Half-wave Plate 48WP-2-x-1-x

The half-wave plate rotates the polarization direction of a linearly polarized input beam of one single wavelength and not the other



### FEATURES

The dichroic retardation plate (also known as waveplates or retarder plates) are  $\lambda/2$  plates for one wavelength and do not affect the polarization of the other wavelength. The correctly positioned plate rotates two orthogonally polarized input beams of different wave lengths into linear polarization states in parallel. The dichroic retardation plates have a rotary mount and are designed to be integrated into the [multicube system](#) e.g. in [dichroic Fiber Port Clusters](#).

- Quartz plate, multiple order
- Retardation  $\lambda/2$  for one wavelength
- Retardation  $\lambda/1$  for the other wavelength (polarization is not affected)
- For various wavelengths UV-IR
- Clear aperture 5 mm
- In adjustable mount with self-locking tubular axis (0 - 360°)
- Rotation around axis that is inclined 2° with respect to the optical axis. This avoids interference and back-reflection
- System mount Ø 19.5 mm
- Adjustable using Schäfter+Kirchhoff Polarization Analyzer series [SK010PA](#).

## ORDER OPTIONS

Order Code	Series	Retardation	Wavelength	Unaffected Wavelength	System Mount
<a href="#">48WP-2-378-1-404</a>	48WP	$\lambda/2$	378 nm	404 nm	Ø 19.5 mm
<a href="#">48WP-2-404-1-394</a>	48WP	$\lambda/2$	404 nm	394 nm	Ø 19.5 mm
<a href="#">48WP-2-628-1-606</a>	48WP	$\lambda/2$	628 nm	606 nm	Ø 19.5 mm
<a href="#">48WP-2-717-1-707</a>	48WP	$\lambda/2$	717 nm	707 nm	Ø 19.5 mm
<a href="#">48WP-2-780-1-767</a>	48WP	$\lambda/2$	780 nm	767 nm	Ø 19.5 mm
<a href="#">48WP-2-780-1-795</a>	48WP	$\lambda/2$	780 nm	795 nm	Ø 19.5 mm

## DOWNLOADS



[980210090404.pdf \(Dimensional drawing\)](#)

## ACCESSORIES

### POLARIZATION ANALYZER SK010PA

Measurement tool for coupling into polarization-maintaining fiber cables

## RELATED PRODUCTS

### FIBER PORT CLUSTER 2 → X DICHROIC

Compact, rugged and highly efficient opto-mechanical unit for splitting/combining multiple ports

### BEAM COMBINER 2 → 1, DICHROIC

Compact, rugged and highly efficient opto-mechanical unit with dichroic beam combining plate

### MULTICUBE SYSTEM

Multicube-Components and Systems

### RETARDATION OPTICS

Retardation optics for fiber collimators

This is a printout of the page

<https://sukhamburg.com/products/fiberoptics/multicube/optics/retardation/half/dichroic.html> from 4/23/2024

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