

## LOW ORDER WAVEPLATES

### Features

- Thinner than multiple order

Low order plates are less temperature sensitive and temperature dependent than multiple order plates. These plates are suitable for high and low power applications.

### Specifications

Material	Single crystal quartz
Optical axis	normal to facet on circumference of retarder
Surface quality	20 – 10 scratch & dig (MIL-PRF-13830B)
Wavefront distortion	$\lambda/10$ @ 633 nm
Parallelism	< 10 arcsec
AR coating	R < 0.5%
Laser damage threshold	100 mJ/cm <sup>2</sup> , 50 fsec pulse, 800 nm typical

**Ø12.7 mm waveplates.** Clear aperture Ø11 mm, unmounted

Wavelength, nm	Retardation $\lambda/2$		Retardation $\lambda/4$	
	Catalogue number	Price, EUR	Catalogue number	Price, EUR
1030	<a href="#">461-4208D12</a>	105	<a href="#">461-4408D12</a>	105
800	<a href="#">461-4215D12</a>	105	<a href="#">461-4415D12</a>	105
780	<a href="#">461-4220D12</a>	105	<a href="#">461-4420D12</a>	105
515	<a href="#">461-4232D12</a>	105	<a href="#">461-4432D12</a>	105

### Related Products

Low Order Plates of other wavelengths

See page 1.68

High Precision Rotation Polarizer, Waveplate Mount 840-0186

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**Ø20 mm waveplates.** Clear aperture Ø17 mm, mounted into Ø25.4 mm ring holder

Wavelength, nm	Retardation $\lambda/2$		Retardation $\lambda/4$	
	Catalogue number	Price, EUR	Catalogue number	Price, EUR
1030	<a href="#">461-4208</a>	160	<a href="#">461-4408</a>	160
800	<a href="#">461-4215</a>	160	<a href="#">461-4415</a>	160
780	<a href="#">461-4220</a>	160	<a href="#">461-4420</a>	160
515	<a href="#">461-4232</a>	160	<a href="#">461-4432</a>	160
400	<a href="#">461-4235</a>	160	<a href="#">461-4435</a>	160
343	<a href="#">461-4241</a>	192	<a href="#">461-4441</a>	192

## MULTIPLE ORDER DUAL WAVELENGTH WAVEPLATES

### Specifications

Material	Single crystal quartz
Optical axis	normal to facet on circumference of retarder
Wavefront distortion	$\lambda/10$ @ 633 nm
Clear aperture	Ø17 mm
Ring mount outer diameter	25.4 +0.0 / -0.12 mm
Surface quality	20 – 10 scratch & dig (MIL-PRF-13830B)
Parallelism	< 10 arcsec
AR coating	R < 0.5%
Nominal thickness of waveplate	0.2 – 1.2 mm
Laser damage threshold	>100 mJ/cm <sup>2</sup> , 50 fsec pulse, 800 nm typical

### Related Products

Dual Wavelength Plates of other wavelengths

See page 1.70

High Precision Rotation Polarizer, Waveplate Mount 840-0186

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Retardation and Wavelength	Catalogue number	Price, EUR
$\lambda$ @ 800 nm + $\lambda/2$ @ 400 nm	<a href="#">463-4121</a>	215
$\lambda$ @ 800 nm + $\lambda/4$ @ 400 nm	<a href="#">463-4141</a>	215
$\lambda/2$ @ 800 nm + $\lambda$ @ 400 nm	<a href="#">463-4211</a>	215
$\lambda/2$ @ 800 nm + $\lambda/2$ @ 400 nm	<a href="#">463-4221</a>	215
$\lambda/2$ @ 800 nm + $\lambda/4$ @ 400 nm	<a href="#">463-4241</a>	215
$\lambda/4$ @ 800 nm + $\lambda$ @ 400 nm	<a href="#">463-4411</a>	215
$\lambda/4$ @ 800 nm + $\lambda/2$ @ 400 nm	<a href="#">463-4421</a>	215
$\lambda/4$ @ 800 nm + $\lambda/4$ @ 400 nm	<a href="#">463-4441</a>	215