

# Achromatic (broadband) waveplates Half-wave (HWP) and Quarter-wave (QWP)



Achromatic (Broadband) Waveplates. Half and quarter waveplates rotate or convert polarization over wide wavelength range with low dependence.

**Price** typically from 160 €  
**Delivery**  
*Stock* 1-3 days  
*Manufacturing* 4-6 weeks

## Standard Achromatic (Broadband) Waveplates

Made from two waveplates of different materials ( $MgF_2$  and Quartz). This construction allows to achieve near-constant retardation throughout whole designed wavelength range.

## Super Achromatic (Broadband) Waveplates

These waveplates are constructed from several waveplates and materials. Sandwich-like construction minimizes chromatic dispersion and ensures even more constant retardation throughout whole designed wavelength range

Face Size	Mount	Mount Size	Construction	Retardation	Wavelength (Range)	LIDT (10 ns, 10 Hz)	Surface Quality	WFD
Ø20 mm	Metal ring	Ø25.4 x 6 mm	Air-spaced	$\lambda/4$ (quarter-wave)	470-650 nm	>5 J/cm <sup>2</sup> @ 1064 nm	40-20 S-D	$\lambda/6$
Ø20 mm	Metal ring	Ø25.4 x 6 mm	Air-spaced	$\lambda/2$ (half-wave)	470-650 nm	>5 J/cm <sup>2</sup> @ 1064 nm	40-20 S-D	$\lambda/6$
Ø20 mm	Metal ring	Ø25.4 x 6 mm	Air-spaced	$\lambda/4$ (quarter-wave)	650-1100 nm	>5 J/cm <sup>2</sup> @ 1064 nm	40-20 S-D	$\lambda/6$
Ø20 mm	Metal ring	Ø25.4 x 6 mm	Air-spaced	$\lambda/2$ (half-wave)	650-1100 nm	>5 J/cm <sup>2</sup> @ 1064 nm	40-20 S-D	$\lambda/6$
Ø20 mm	Metal ring	Ø25.4 x 6 mm	Air-spaced	$\lambda/4$ (quarter-wave)	1000-1700 nm	>5 J/cm <sup>2</sup> @ 1064 nm	40-20 S-D	$\lambda/6$
Ø20 mm	Metal ring	Ø25.4 x 6 mm	Air-spaced	$\lambda/2$ (half-wave)	1000-1700 nm	>5 J/cm <sup>2</sup> @ 1064 nm	40-20 S-D	$\lambda/6$