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25.4mm Dia, 550 – 750nm, λ/4 Achromatic **Waveplate**



Achromatic Waveplates (Retarders)

Stock **#39-038** ✓ In Stock

Qty 1-5 \$1,075.90

Qty 6+ \$933.86

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SPECIFICATIONS

General

Type:

Achromatic

Waveplate

Configuration:

Spaced

Physical & Mechanical Properti

Clear Aperture CA (mm):	>20.0	Diameter 25.40 (mm):
Thickness (mm):	6.00 ±0.2	Dimensional 0/-0.25 Tolerance (mm):
Constructio@rystalline		Parallelism <10 (arcsec):
Housing Tolerance (mm):	+0/-0.25	

Optical Properties

Coating:	R _{avg} <0.75% @ 550 - 750nm	Substrate: Crystal Quartz and MgF ₂
Retardanceλ/4		Surface 40-20 Quality:
Transmitted k λ/4		Retardanceλ/100
Wavefron	t, @	Tolerance: @
P-V:	632nm	20°C
Coating	R_{avg}	Wavelength 550 -
Specification 0.75%		Range 750
	@ 550	(nm):
	-	
	750nm	
Damage	e >5	
Threshold	l , J/cm ²	
В	y @	
	0 1064nm,	
	10ns,	
	10Hz	

Regulatory Compliance

RoHS 2015:	Compliant	Certificate View of Conformance:
Reach 247:	Compliant	

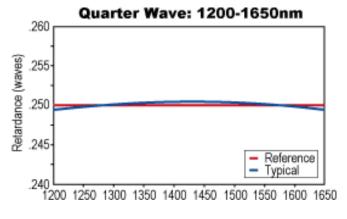
PRODUCT DETAILS

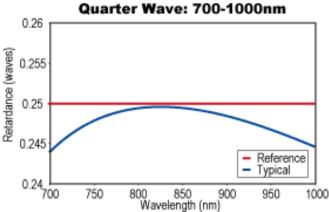
- Multiple Wavelength Ranges Available
- Flat Response Over Each Broad Spectral Range
- λ/4 and λ/2 Retardance
- Mounted in Black Anodized Aluminum Housing

Achromatic Waveplates (Retarders) provide a constant phase shift independent of the wavelength of light that is used. This wavelength independence is achieved by using two different birefringent crystalline materials. The relative shifts in retardation over the wavelength range are balanced between the two materials used. Achromatic Waveplates (Retarders), with their flat response, are ideal for use with tunable lasers, multiple laser line systems, and other broad-spectrum sources.

Designed to be used at an angle of incidence of 0°, changes of ±3° will yield less than 1% change in retardance. The 23mm clear aperture waveplates will feature a cemented construction. All Achromatic Waveplates (Retarders) are mounted in an anodized aluminum housing with the fast axis clearly indicated.

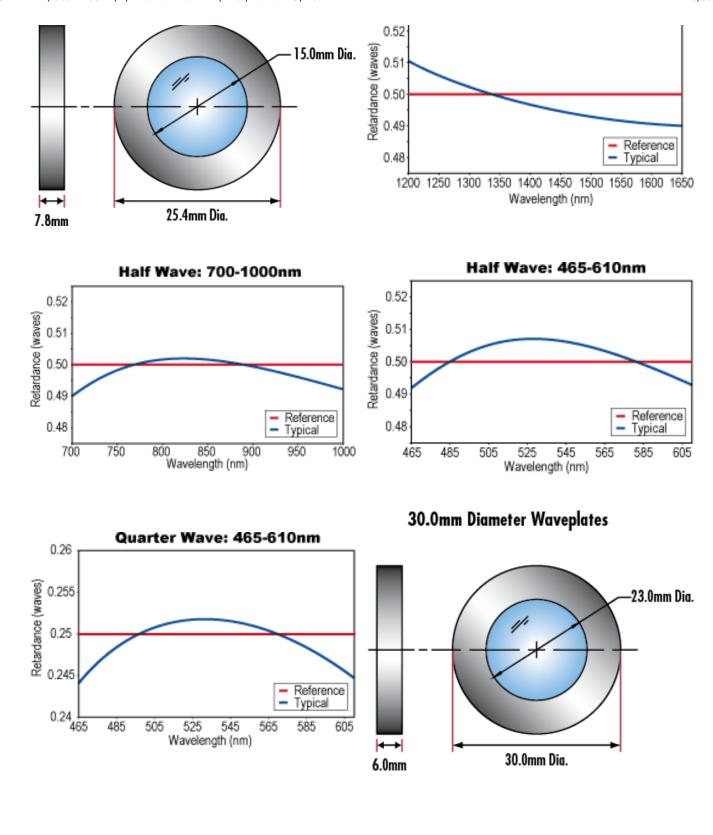
TECHNICAL INFORMATION





25.4mm Diameter Waveplates

Half Wave: 1200-1650nm



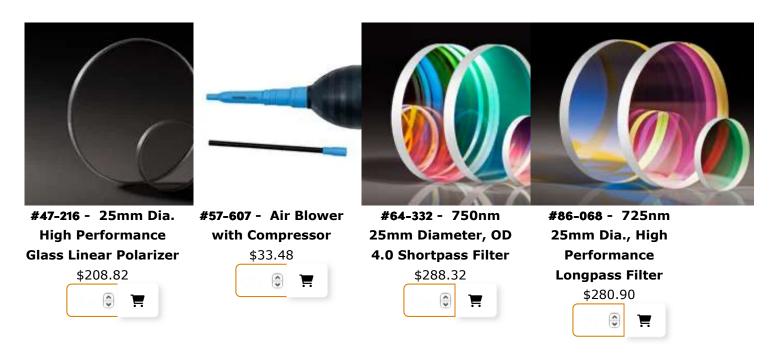
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