

Achromatic Waveplates- AWP Series

(Zero-Order, Half- & Quarter-Wave Version)

PHOTONIK ^{hy}

Introduction:

Two different birefringent materials, crystalline quartz and magnesium fluoride, are used for our bi-crystalline achromatic waveplates, to balance the dispersion and provide a nominally flat spectral response. Each achromatic waveplate is zero-order retarders designed to optimize for minimum RMS retardance error over a broad spectral range. These achromatic waveplates are air-spaced and are AR coated with a selection of AR coating for three wavelength ranges. They can handle high optical powers up to 2 J/cm² @ 10ns 1064nm pulses.



Features:

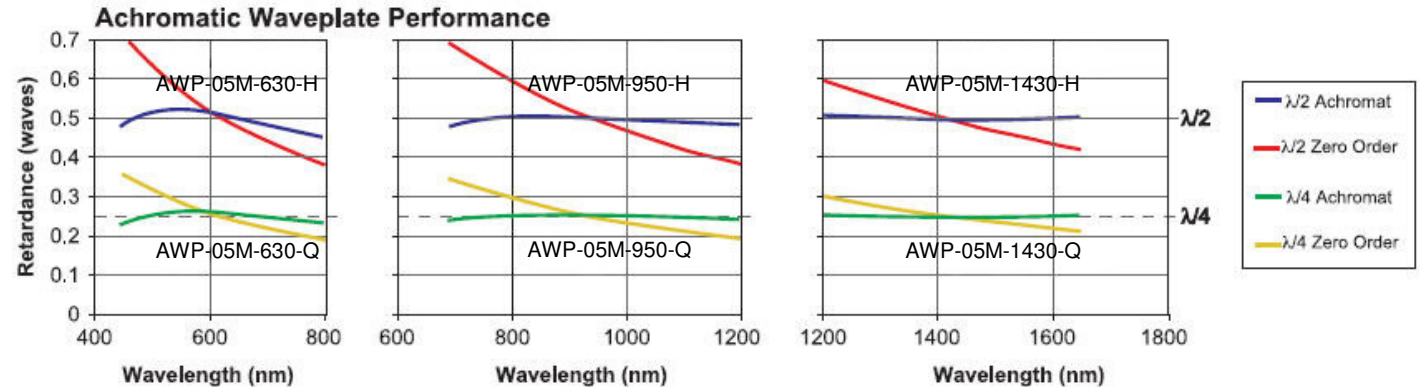
- Zero-order Retarders Designed
- Quarter and Half Waveplates Available
- High Energy Air Spaced Design
- Higher Damage Threshold
- Double Side AR at Wavelength Range
- Improved IR Performance

Application:

These waveplates provide an ideal solution for converting linearly polarized light into circular polarization and vice versa, or for rotating a linearly polarized beam over a broad wavelength range.

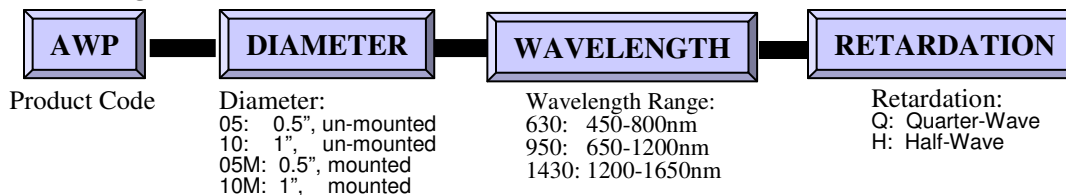
Specifications:

Material:	Crystalline Quartz & Magnesium Fluoride
Diameter:	12.7mm Mounted; 25.4mm Mounted
Retardance Accuracy (typ):	<λ/150 RMS Over Spectral Range
Beam Deviation:	<1 arcmin.
Transmitted Wavefront Error:	<λ/4
Clear Aperture:	≥Ø0.43" (Ø11.0mm)
Surface Quality:	40-20 Scratch-Dig
Reflectance:	<0.5% Per Surface
Damage Threshold:	2J/cm ² @ 10ns 1064nm



Photonik reserves the rights to change product designs and specifications at any time without notice.

Ordering Information:



Contact Information:

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