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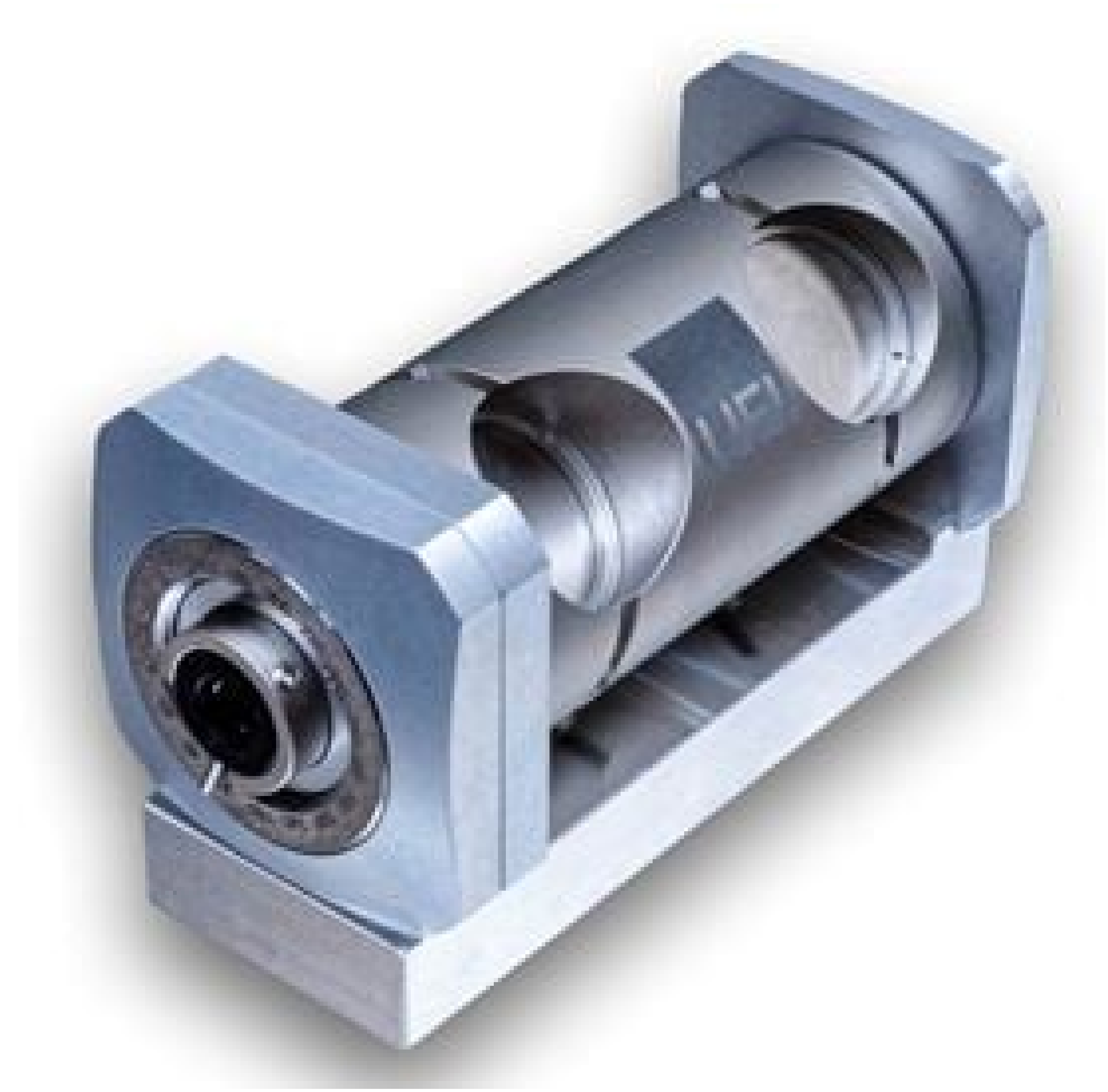
AURORA 40-85eV (15 - 31nm) XUV Phase Retarder

See More by UltraFast Innovations (UFI)



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- 1 + €36.720.00

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Product Downloads

Ellipticity (Pc^1):

0.85 @ 23.4nm (Fe)
0.75 @ 18.79 (Ni)

General

Note:

Included with the Unit
9-pin D-Sub connector
DN40CF window for vacuum chamber integration

Physical & Mechanical Properties

Dimensions (mm):

51 x 118

Clear Aperture CA (mm):

3

Optical Properties

Transmission (%):

>25

Wavelength Range (nm):

14.58 - 30.99

Extra Beam Path (mm):

3

Electrical

Bandwidth (eV):

40 - 85

Regulatory Compliance

Certificate of Conformance:

View

Product Details

- Near Circular Polarization of Extreme UV (XUV) Light without Adding Dispersion
- Up to 40% Max Transmission
- Spectral Range Options of 40 – 85 eV (15 - 31nm) or 10 – 35 eV (31 - 124nm)

UltraFast Innovations (UFI) Aurora XUV Phase Retarders are designed to act as a quarter waveplate to turn linearly polarized XUV light into circularly polarized light without introducing additional dispersion. These phase retarders achieve close to-circular polarization of PC = 0.75 and feature a > 25% transmission around 66 eV photon energy, at the Ni M2/M3 edge. Broad bandwidth options of 40 – 85eV (15 - 31nm) or 10 – 35eV (31 - 124nm) are available and a clear aperture of 3mm will allow the low divergent XUV light to pass through without clipping. UltraFast Innovations (UFI) Aurora XUV Phase Retarders use a transmission optimized, four mirror-grazing incidence reflection geometry that induces a quarter wave phase offset between the s- and p-polarization components of a linearly polarized input XUV beam. These retarders are ideal for XUV ultrafast high-harmonic, laser-based pump probe, and attosecond applications.

Note: Please contact Edmund Optics after placing your order (or prior to ordering) to provide:

- Required cable length between AURORA and the vacuum flange (include units)
- Country of operation / end-use country (required to supply the correct cable type)

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