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

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Stock #75-231 **NEW** [CONTACT US](#)

- 1 + €36.720<sup>00</sup>

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### Volume Pricing

Qty 1+	€36.720,00 each
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### Product Downloads

**Ellipticity (Pc<sup>1</sup>):**

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:**

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## 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 M<sub>2</sub>/M<sub>3</sub> 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)