



Super Large Zero Order Waveplates – 76.2mm



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- Laser Quality Crystal Quartz
- Air Spaced for High Power
- Clear Aperture of 73mm
- Mounted or Unmounted
- Retardations of 1/2 and 1/4 Wave
- Waveplates are AR Coated
- Standard Wavelengths
- Custom Wavelengths available
- Rugged 4" Mounting Ring

A new standard in zero order waveplates has been established by Tower Optical – a 3" zero order waveplate from stock. This super large zero order waveplate provides users with the ability to perform new techniques with large beam lasers. In addition, these waveplates are air spaced thus providing operation at higher power levels than contacted or cemented waveplates. Standard retardations of 1/4 and 1/2 wave are provided for each wavelength offered. In stock wavelengths are 405, 532, 632.8, 800 and 1064nm. For custom orders the wavelength is selectable from 355nm to 2021nm.

The mounting ring for the three inch zero order waveplate is heavy duty Aluminum, 4 inch diameter and 7/8 inch thick to protect the dual plate Crystal Quartz waveplate. The crystal axis is shown as a scribe mark on the face of the ring. The waveplate is held in place with a retaining ring.

Waveplate Specifications

Material: Crystal Quartz – Laser quality

Waveplate Thickness Range: 4.0 to 10mm

Wavefront Distortion: $\lambda / 10$ @ 632.8nm

Surface Quality: 20-10 Scratch/Dig

Parallelism (Wedge): 0.5 arc seconds

Wavelengths: 405, 532, 633, 800, 1064nm

Retardation Tolerance: ± 0.005 waves @ 632.8nm

Coating: Anti Reflective, $R < 0.25\%$ per surface

Damage Threshold: 1kW/cm² – CW 3.5 J/cm² @10ns

Diameter: 76.2, +0.0/-0.25mm unmounted;
101.6, +0.00/-0.25mm mounted

Mounted Thickness: 24mm

Ordering Information

Unmounted

Z-76.2-A-R-N-WL\$2795

Mounted in a 4 inch ring

Z-76.2-A-R-H-WL\$2995

R=Retardation: 250 or .500, WL=Wavelength

Custom wavelengths are available for \$3400 in an unmounted version and \$3496 mounted



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