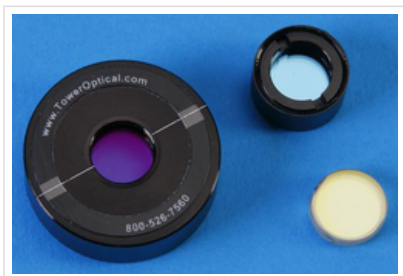


Zero Order Waveplate 10mm



Please select Options

Wavelength:

Retardation:

Mount:

Part Number: Z-10-A-.250-A-633

Price: 305.00

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1

Next Day Shipping Available For Most Wavelengths

Description

Tower's 10mm Zero order waveplates provide users with a high performance Crystal Quartz retarder with a clear aperture of 8mm. These waveplates are air spaced, having a stainless steel spacer between two crystal quartz plates that form the zero order capability. Zero order waveplates are far less sensitive to temperature variations than multi-order waveplates. Air spaced waveplates have higher thermal stability and power handling capability than contacted or cemented waveplates. There are no failures as occur with contacted waveplates coming apart. Angular alignment of the waveplates is also more accurate. Tower Optical standard 10mm waveplates are made from Laser quality Crystal Quartz and are AR coated. Each plate is AR coated on both sides. Standard retardations are $\frac{1}{2}$ or $\frac{1}{4}$ wave. These waveplates are offered either unmounted with a diameter of 10mm or mounted in a 12.7mm or 25.4mm, anodized Aluminum mounting ring with an 8mm clear aperture. The standard wavelengths available are shown in the chart below. As a special feature, Tower offers the ability to supply the 10mm zero order waveplates at wavelengths within a range of 10–20nm from any of those listed on the chart. Other wavelengths are available on a custom order basis.

Waveplate Specifications

Material: Crystal Quartz - Laser quality
Waveplate Thickness Range: 0.3 to 1.3mm
Wavefront Distortion: $\lambda/10$ @ 632.8nm
Surface Quality: 10-5 Scratch/Dig
Parallelism (Wedge): 0.5 arc seconds
Wavelength Range: 237nm - 2021nm
Retardation Tolerance: ± 0.005 waves @ 632.8nm
Coating: Anti Reflective, $R < 0.25\%$ per surface
Damage Threshold:
 1 kW/cm²-CW, 3.5 J/cm² @ 10 ns
Diameter: 10mm, $\pm 0.0/-0.25$ mm unmounted;
 12.7 or 25.4mm, $\pm 0.00/-0.25$ mm mounted
Mounted Thickness: 6.4(12.7mm) or 7.8(25.4mm)

- 8mm Clear Aperture
- 10mm Unmounted Diameter
- 12.7 or 25.4mm Mounted Diameter
- Wide Range of Wavelengths
- 1/2 and 1/4 Wave Retardation
- Waveplates Are AR Coated
- Very High Laser Quality
- High Performance Specifications

Standard Wavelengths for 10mm Waveplates

237	248	266	308	325
355	399	405	408	413
423	442	458	488	515
532	556	589	633	647
650	660	670	676	694
710	767	780	800	808
820	830	850	905	946
980	1050	1064	1112	1315
1550	1762	1988	2021	

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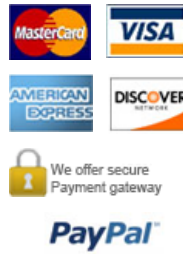
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