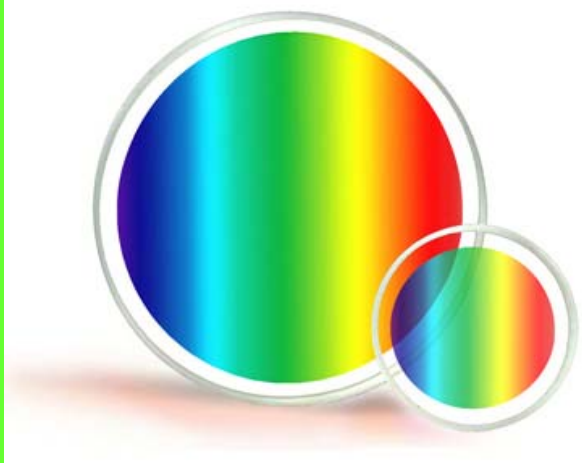
1800 l/mm gratings at 532 nm

Wasatch Photonics
Ultimate Diffraction Gratings

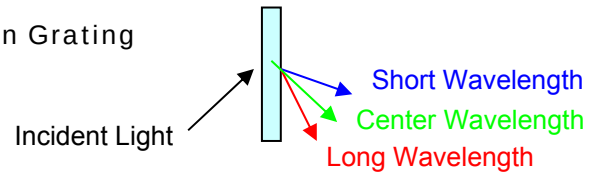


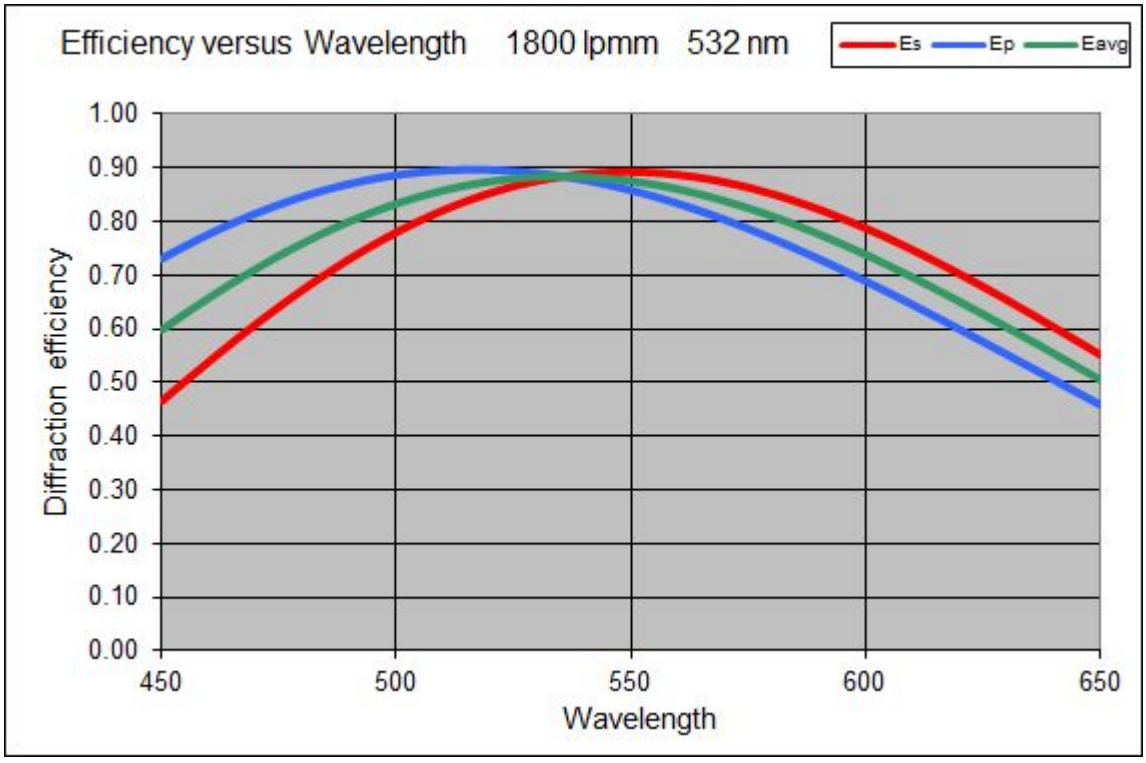
VOLUME PHASE HOLOGRAPHIC TRANSMISSION GRATINGS

1800 l/mm at 532 nm

This high-efficiency grating works well in the visible spectrum region around 532 nm. It is created by using coherent laser light to write the interference pattern in dichromated gelatin. After processing, the grating is capped with a protective glass covers and then AR coated. The results are a grating with low scatter, high diffraction efficiency and low wavefront distortion. The grating is durable and can be cleaned using the same methods to clean AR coated optics. These gratings are available in 25.4 mm and 50.8 mm diameter sizes

Transmission Grating Geometry





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SPECIFICATIONS

General	
Surface quality	60-40 scratch-dig
Diffracted Wavefront	< λ/5 rms @ 632.8 nm
Spatial Frequency	1800 l/mm +/- 0.5 l/mm
CWL	532 nm
Angle of Incidence (AOI)	28.6° @ 532 nm
Thickness Tolerance	+/- 0.25
Diameter Tolerance	+0/-0.15
Chamfers	0.25-0.75 mm face width
Chamfers Angle/Tolerance	45° +/-15°
AR Coating	< 0.5% Reflection; 450 nm - 650 nm

25.4 mm gratings	
Substrate and Cover Glass	1.5 mm BK7 3 mm total thickness
Clear Aperture	20 mm
Dimensions	A =25.4 mm B = 3 mm

50.8 mm inch gratings	
Substrate and Cover Glass	3 mm BK7 6 mm total thickness
Clear Aperture	45 mm
Dimensions	A = 50.8 mm B = 6 mm