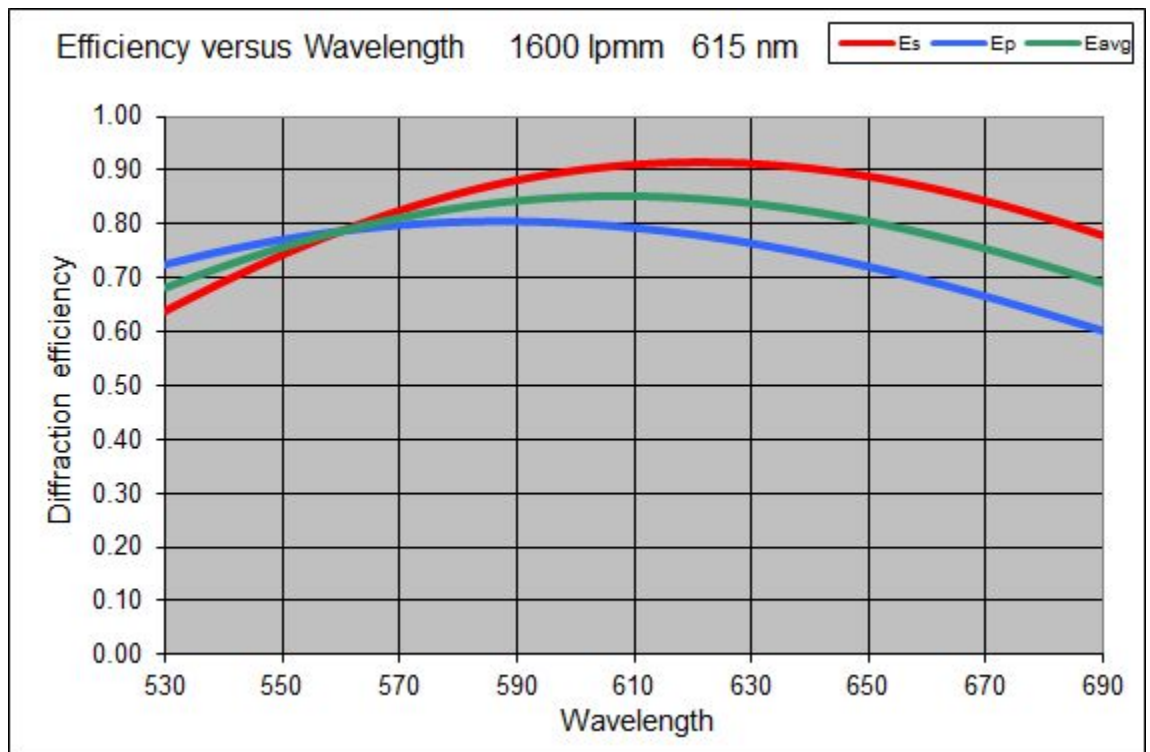
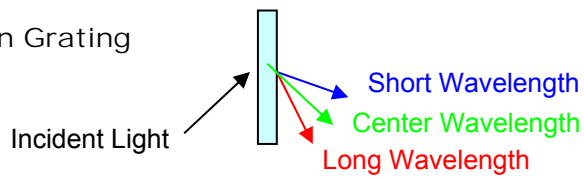


VOLUME PHASE HOLOGRAPHIC TRANSMISSION GRATINGS

1600 l/mm at 615 nm

These high-efficiency gratings are popular for Raman Spectroscopy and other applications in the region around 615 nm. They are created by using coherent laser light to write the interference pattern in dichromated gelatin. After processing, the grating is capped with a protective glass cover 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.

Transmission Grating Geometry



SPECIFICATIONS

General	
Surface quality	60-40 scratch-dig
Diffracted Wavefront	$< \lambda/5$ rms @ 632.8 nm
Spatial Frequency	1600 l/mm +/- 0.5 l/mm
CWL	615 nm
Angle of Incidence (AOI)	29.5° @ 615 nm
Thickness Tolerance	+/- 0.25
Dimension Tolerance	+0/-0.15
Lines Perpendicular to B	0.15°
Chamfers	0.25-0.75 mm face width
Chamfers Angle/Tolerance	45° +/-15°
AR Coating	< 0.5% Reflection; 530 nm - 690 nm
Substrate and Cover glass	3 mm BK7 6 mm total thickness
Clear Aperture	30 mm x 40 mm
Dimensions	A=35 mm B=45 mm T=6 mm

