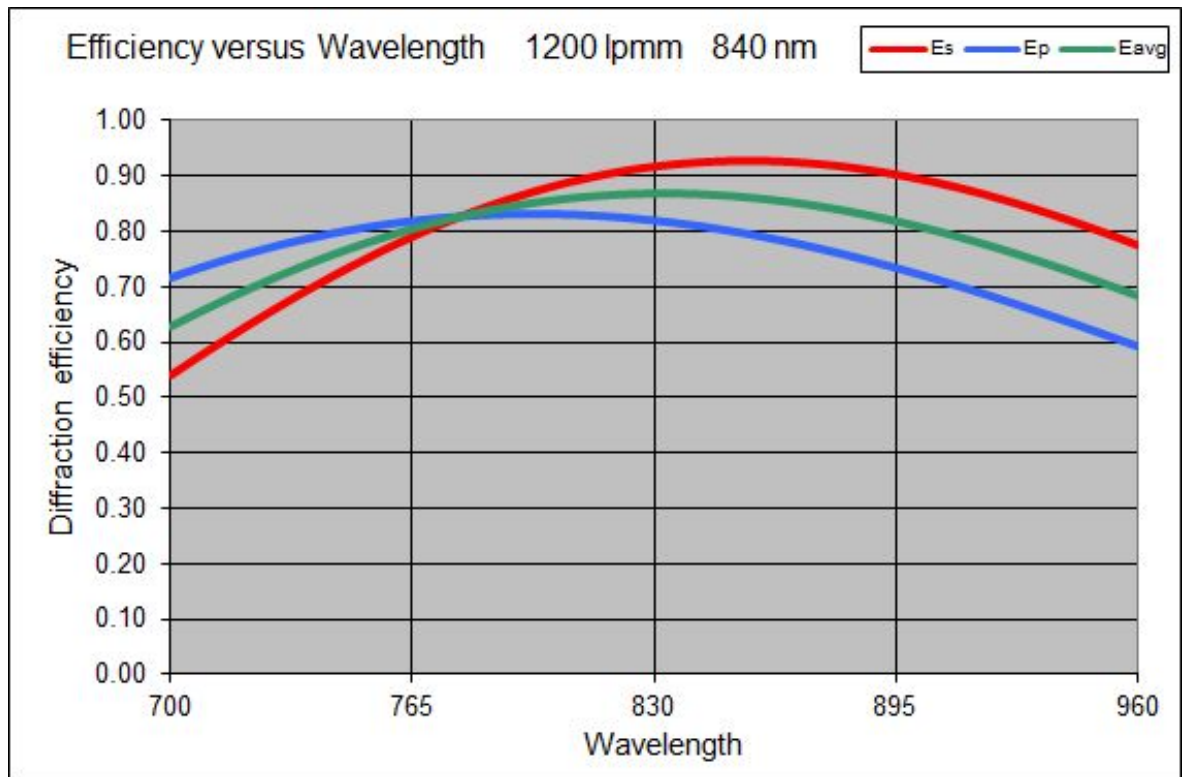
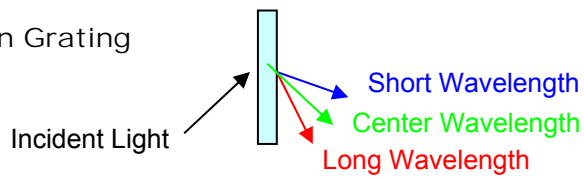


VOLUME PHASE HOLOGRAPHIC TRANSMISSION GRATINGS

1200 l/mm at 840 nm

These high-efficiency gratings are popular for Optical Coherence Tomography (OCT) and other applications in the region around 840 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. These gratings are available in 25.4 mm and 50.8 mm diameter sizes

Transmission Grating Geometry



SPECIFICATIONS

General	
Surface quality	60-40 scratch-dig
Diffracted Wavefront	$< \lambda/5$ rms @ 632.8 nm
Spatial Frequency	1200 l/mm +/- 0.5 l/mm
CWL	840 nm
Angle of Incidence (AOI)	24.7° @ 840 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; 700 nm - 960 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

