



### VOLUME PHASE HOLOGRAPHIC TRANSMISSION GRATINGS

#### Dickson® 1450 l/mm at 1030 nm

These Dickson® gratings are popular for pulse compression and other applications around 1030 nm. These gratings are exposed using well-collimated laser light in dichromated gelatin. After processing, the gratings are capped with protective glass covers and then AR coated. The resulting gratings exhibit low scatter, high diffraction efficiency, high dispersion, and low wavefront distortion in an extremely durable package. They can be cleaned using the same methods used to clean AR coated lenses and prisms.

### SPECIFICATIONS

#### 1 inch square gratings

Substrate and Capping Glass:	Fused Silica
Wavefront distortion:	< 1/10 wave rms at 632.8 nm
Spatial Frequency:	1450 l/mm +/- 2 l/mm
Clear Aperture:	23 mm x 21 mm
Physical Size:	25 mm x 25 mm
Assembly Thickness:	6 mm (3 mm substrate + 3 mm cap)
Coating:	AR coated

#### Transmission Grating Geometry

