

# 400 GROOVES, 25 X 25MM HIGH PERFORMANCE REFLECTION GRATING 1300nm • #37-132

- $\lambda/4$  Wave Reflected Wavefront
- Superior Dimensional Tolerances
- Groove Spacing Tolerance <0.05%



|                                     |               |
|-------------------------------------|---------------|
| <b>Groove Density (grooves/mm):</b> | 400           |
| <b>Blaze Wavelength (nm):</b>       | 1300.00       |
| <b>Blaze Angle:</b>                 | 15°           |
| <b>Dimensions (mm):</b>             | 25.0 x 25.0   |
| <b>Dimensional Tolerance (mm):</b>  | ±0.1          |
| <b>Clear Aperture (%):</b>          | >90           |
| <b>Coating:</b>                     | Bare Aluminum |
| <b>Construction:</b>                | Ruled Grating |
| <b>Substrate:</b>                   | Float Glass   |

|                                              |                                |
|----------------------------------------------|--------------------------------|
| <b>Thickness (mm):</b>                       | 6.00                           |
| <b>Thickness Tolerance (mm):</b>             | ±0.3                           |
| <b>Type:</b>                                 | Reflective Diffraction Grating |
| <b>Reflected Wavefront, RMS:</b>             | $\lambda/4$                    |
| <b>Efficiency (S &amp; P Avg):</b>           | 70% - 90% @ Blaze Wavelength   |
| <b>Centering of Ruled Area on Substrate:</b> | ±1mm                           |
| <b>Alignment of Grooves to Edge:</b>         | ±0.15°                         |
| <b>Blaze Wavelength Tolerance (mm):</b>      | ±25                            |
| <b>Groove Spacing Tolerance:</b>             | <0.05%                         |

400 Grooves, 1300nm High Performance Reflection Grating  
Relative Efficiency to Aluminum

