

Headwall Photonics

Low PDL 600 Original Holographic Diffraction Gratings

**Low Polarization
Dependent Loss**

Low Stray Light/Noise

Environmentally Stable

Flat Wavefront

Headwall's Low Polarization Dependent Loss (LPDL) gratings can be optimized for S, C, or L bands. Typical performance of the 600 gr/mm grating design exceeds 80% efficiency in both TM and TE polarizations with a PDL of less than 0.25 dB at each channel when used at the Littrow angle. This design can be optimized for other angles of incidence.

These gratings are manufactured on planar ultra low expansion (ULE) glass, and use an environmentally stable material set which provides highly reliable performance. ULE is the preferred substrate material for this product.

LPDL gratings can be manufactured in the specification ranges listed on back and on substrates up to 110 mm x 110 mm. Headwall offers both standard and custom gratings to meet your specifications.

www.HeadwallPhotonics.com

Headwall Photonics manufactures original holographic diffraction gratings and precision spectral modules for wavelength management and spectroscopic measurement. Headwall offers accurate modeling, rapid prototyping, and collaborative product design capabilities.

Headwall is the world's largest manufacturer of original holographic diffraction gratings.

Available Substrate Sizes

Length (mm)		Width (mm)		Thickness (mm)
4	x	5	x	1
up to				
110	x	110	x	25

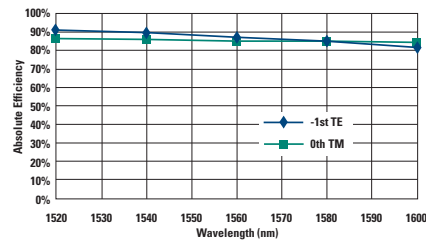
Certain substrate sizes in stock for rapid turnaround. Custom substrate sizes also available. Call for details.

Specification Ranges

Groove Frequency:	600 gr/mm
Wavelength Range:	S, C or L Band
Coating:	Gold
Angle of Incidence:	Littrow or Custom*
Diffraction Order:	-1st
Flatness:	$\lambda/10$ or better at 1550 nm

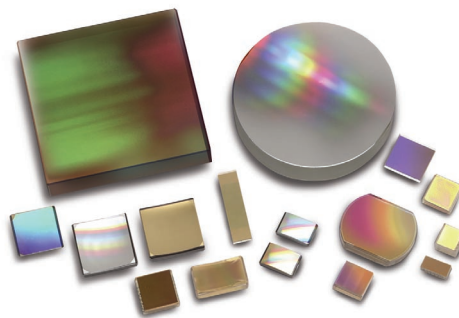
*Contact Headwall as performance varies with application geometries.

Representative LPDL 600 gr/mm Grating Performance



Application Focus

Telecommunications



For more information contact

Headwall Photonics, Inc.

Tel: 978-353-4010/ FAX: 978-342-7083 or

e-mail: Sales@HeadwallPhotonics.com

To find out more visit

www.HeadwallPhotonics.com

Data subject to change.

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