

Concave Grating Rowland Circle Mounting

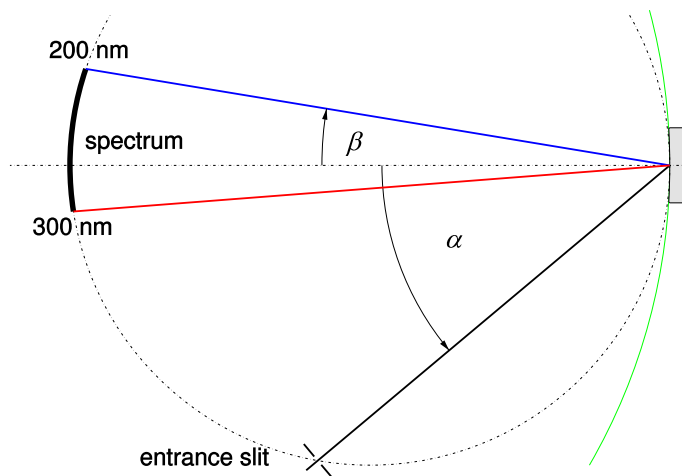


Order number 000000-1990-229

Grating specification

Groove density	2400 ± 3 l/mm
Groove profile	Sinusoidal
Diffraction grating area	≥ Ø 31.5 mm
Reflective coating	Aluminum (unprotected)
Grating master type	Holographically recorded
Grating type	Epoxy replica (copy)
Storage and transport temperature	-40 °C ... +70 °C (non-condensing environment)
Relative humidity	≤ 93 % (non-condensing environment)

Mounting specification (Schematic drawing)



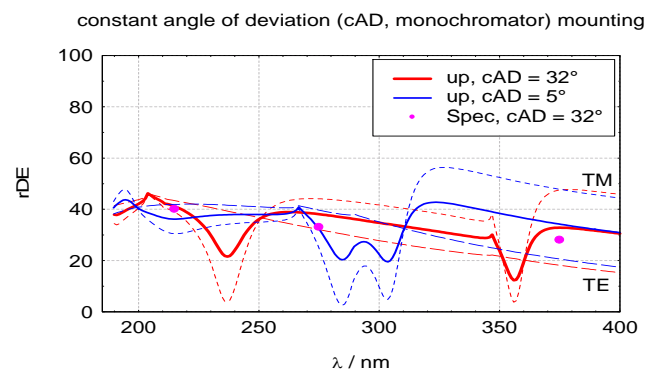
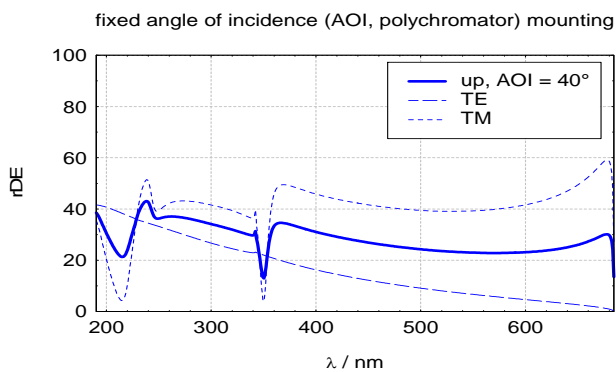
By historic convention clockwise incident and diffraction angles are positive.

Optical grating characteristics

Diffraction efficiency (unpolarized @ cAD = 32°)

215 nm	≥ 40 %
275 nm	≥ 33 %
375 nm	≥ 28 %

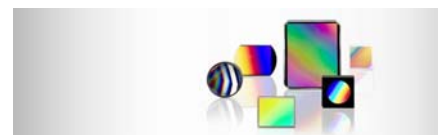
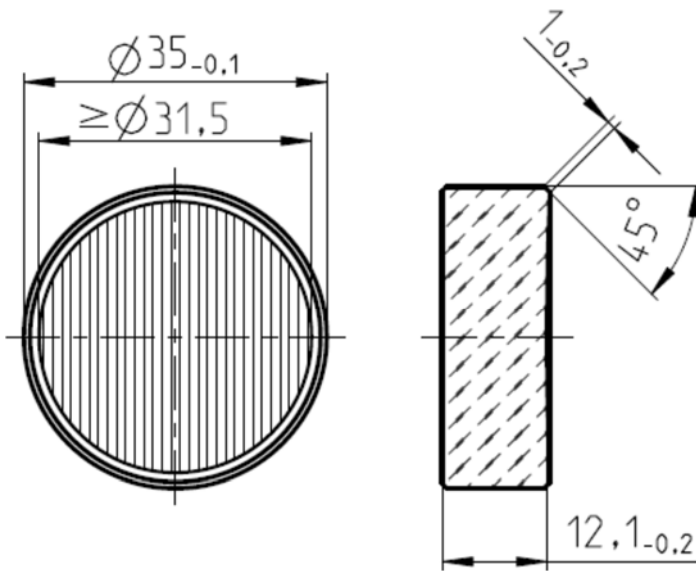
Typical relative diffraction efficiency (rDE) in first diffraction order



Typical efficiency curves based on rigorous electromagnetic modeling using measured AFM profiles. rDE refers to the ratio between diffracted power from the grating and reflected power from a mirror coated with the same material.

Blank specification

Material	N-BK7 (optical glass)
Radius of curvature	398.83 mm
Protective bevel (left surface)	0.5 mm



Concave Grating

Rowland Circle Mounting

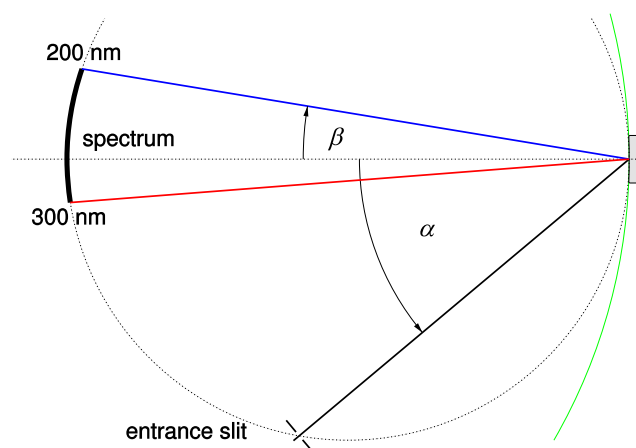


Order number 792032-0000-000

Grating specification

Groove density	2400 ± 4 l/mm
Groove profile	Sinusoidal
Diffraction grating area	≥ Ø 58 mm
Reflective coating	Aluminum (unprotected)
Grating master type	Holographically recorded
Grating type	Epoxy replica (copy)
Storage and transport temperature	-40 °C ... +70 °C (non-condensing environment)
Relative humidity	≤ 93 % (non-condensing environment)

Mounting specification (Schematic drawing)



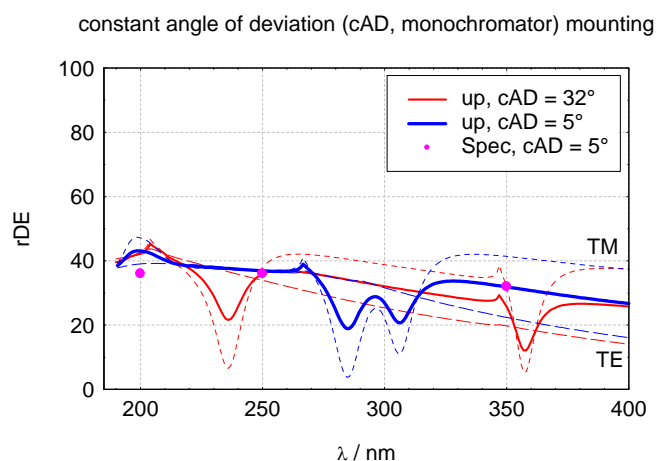
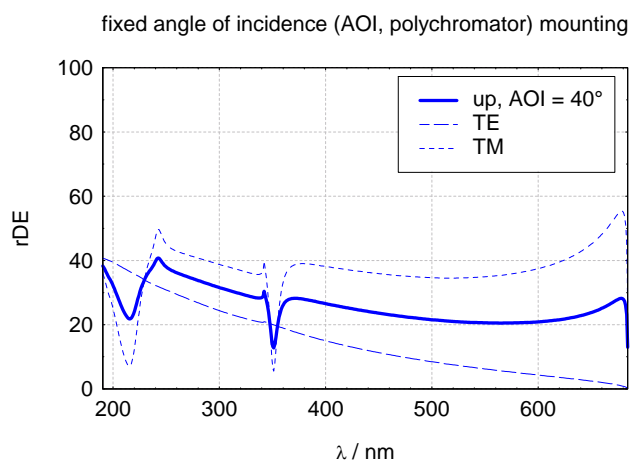
By historic convention clockwise incident and diffraction angles are positive.

Optical grating characteristics

Diffraction efficiency (unpolarized @ cAD = 5°)

200 nm	≥ 36 %
250 nm	≥ 36 %
350 nm	≥ 32 %

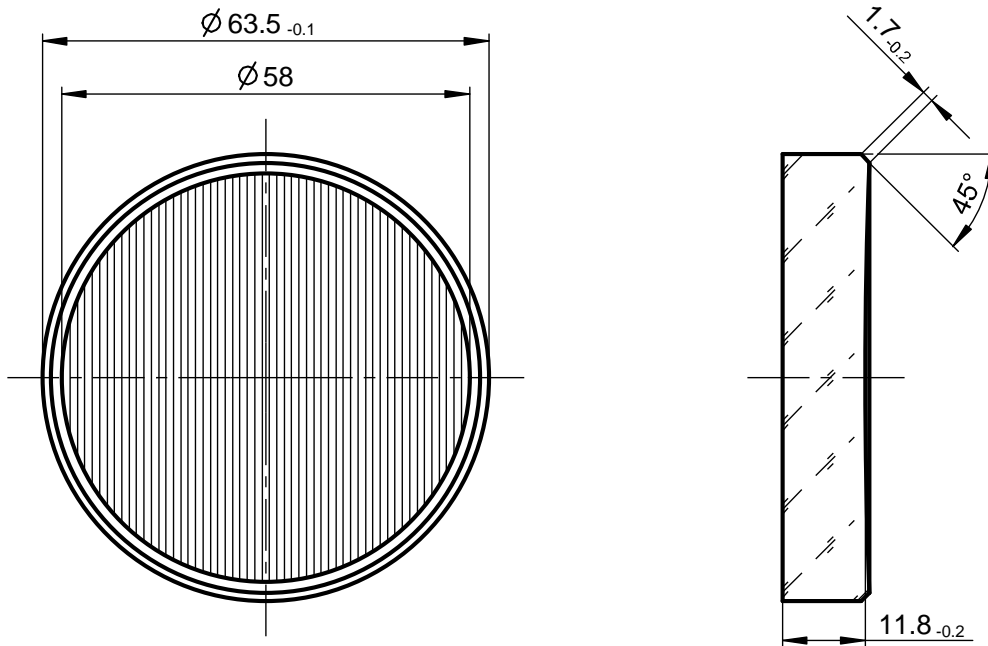
Typical relative diffraction efficiency (rDE) in first diffraction order



Typical efficiency curves based on rigorous electromagnetic modeling using measured AFM profiles. rDE refers to the ratio between diffracted power from the grating and reflected power from a mirror coated with the same material.

Blank specification

Material	Zerodur (extremely low expansion glass ceramic)
Radius of curvature	749.89 mm
Protective bevel (left surface)	0.5 mm



Concave Grating Rowland Circle Mounting

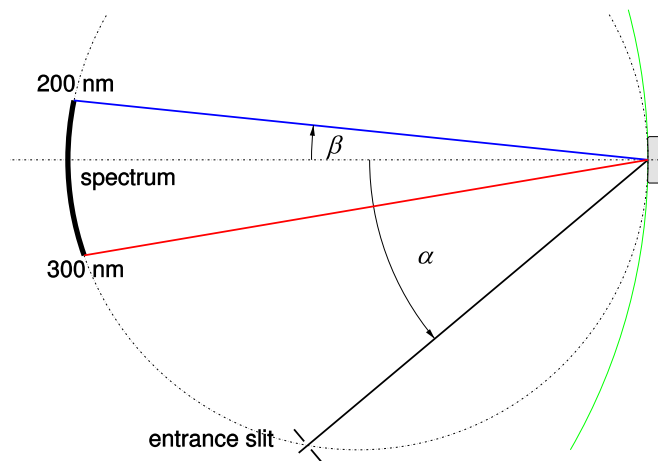


Order number 792039-9901-000

Grating specification

Groove density	2700 ± 4 l/mm
Groove profile	Sinusoidal
Diffraction grating area	≥ Ø 35 mm
Reflective coating	Aluminum (unprotected)
Grating master type	Holographically recorded
Grating type	Epoxy replica (copy)
Storage and transport temperature	-40 °C ... +70 °C (non-condensing environment)
Relative humidity	≤ 93 % (non-condensing environment)

Mounting specification (Schematic drawing)



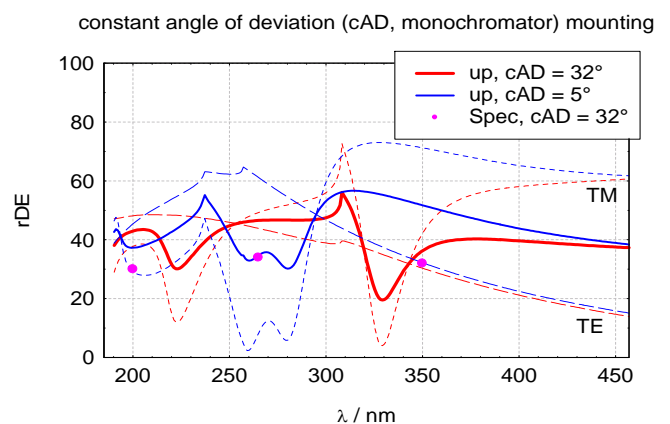
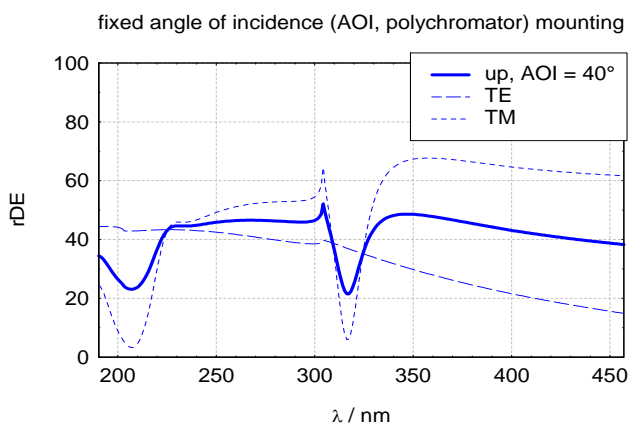
By historic convention clockwise incident and diffraction angles are positive.

Optical grating characteristics

Diffraction efficiency (unpolarized @ cAD = 32°)

200 nm	≥ 30 %
265 nm	≥ 34 %
350 nm	≥ 32 %

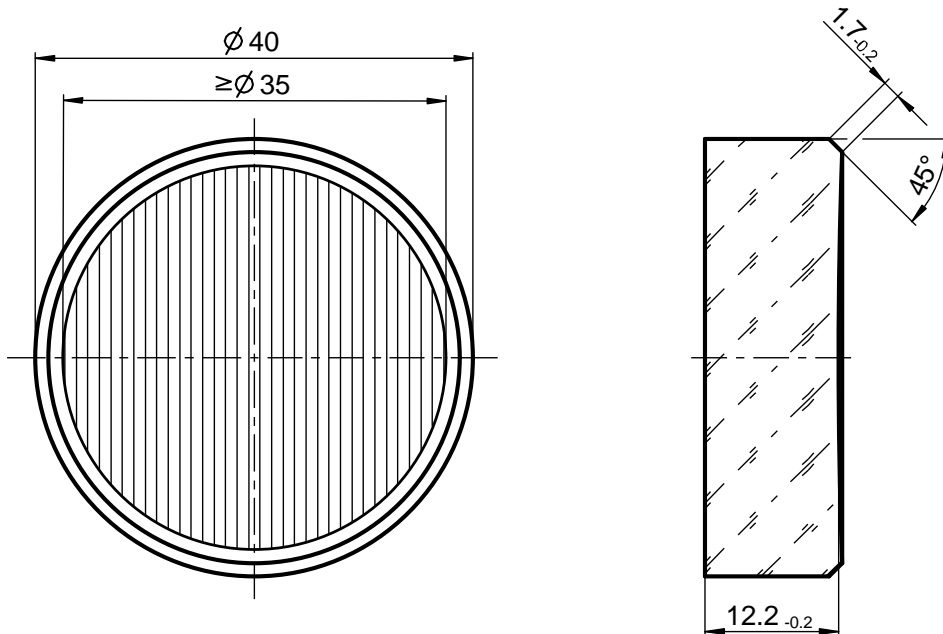
Typical relative diffraction efficiency (rDE) in first diffraction order



Typical efficiency curves based on rigorous electromagnetic modeling using measured AFM profiles. rDE refers to the ratio between diffracted power from the grating and reflected power from a mirror coated with the same material.

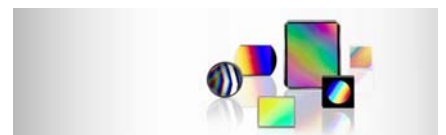
Blank specification

Material	Zerodur (extremely low expansion glass ceramic)
Radius of curvature	501.19 mm
Protective bevel (left surface)	0.5 mm



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Concave Grating Rowland Circle Mounting

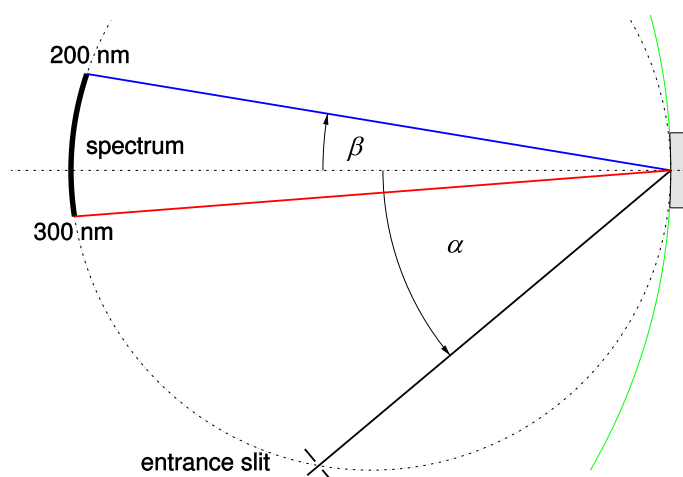


Order number 792044-0000-000

Grating specification

Groove density	2400 ± 3 l/mm
Groove profile	Sinusoidal
Diffraction grating area	≥ Ø 44 mm
Reflective coating	Aluminum (unprotected)
Grating master type	Holographically recorded
Grating type	Epoxy replica (copy)
Storage and transport temperature	-40 °C ... +70 °C (non-condensing environment)
Relative humidity	≤ 93 % (non-condensing environment)

Mounting specification (Schematic drawing)



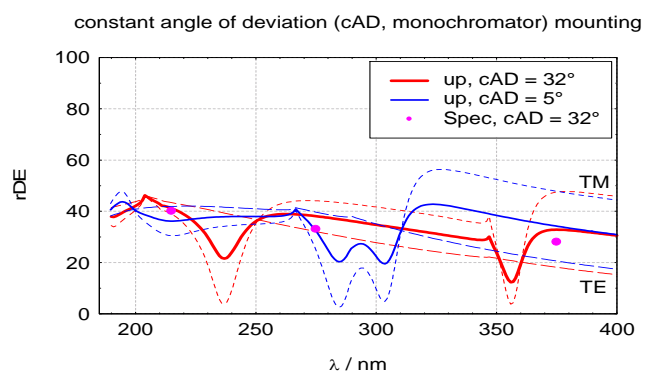
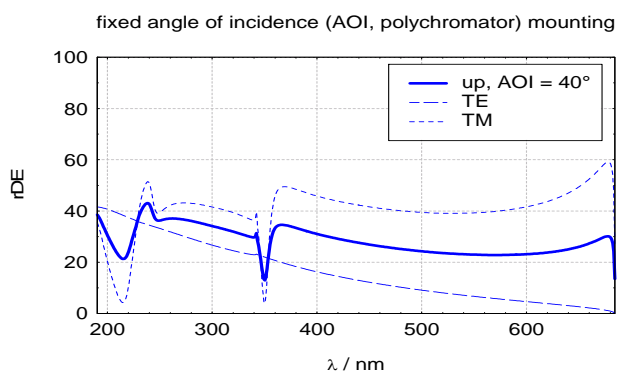
By historic convention clockwise incident and diffraction angles are positive.

Optical grating characteristics

Diffraction efficiency (unpolarized @ cAD = 32°)

215 nm	≥ 40 %
275 nm	≥ 33 %
375 nm	≥ 28 %

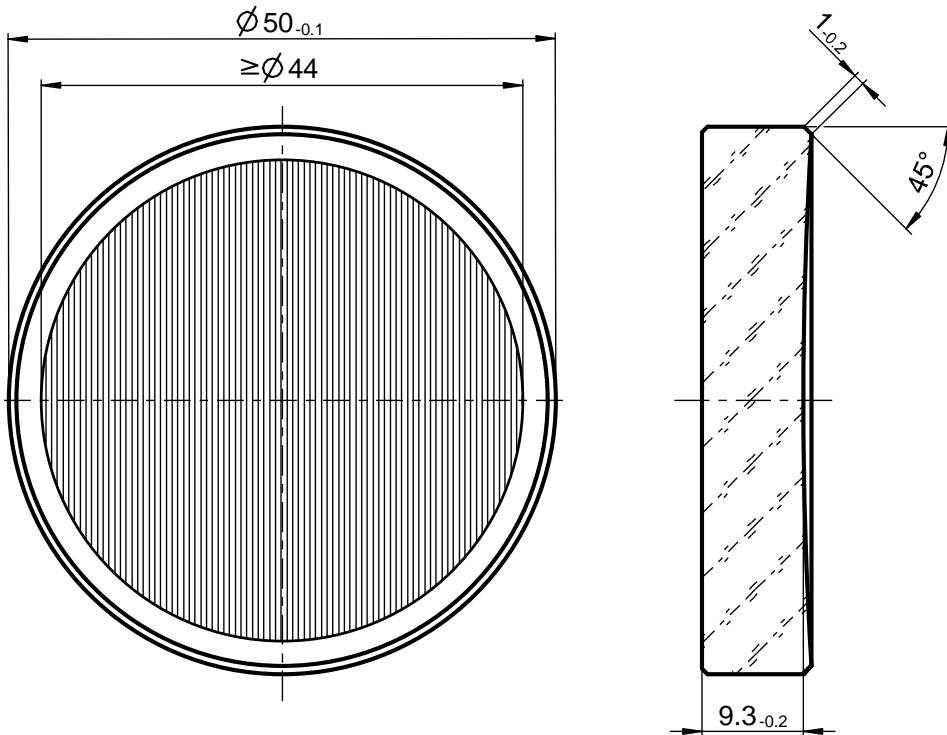
Typical relative diffraction efficiency (rDE) in first diffraction order



Typical efficiency curves based on rigorous electromagnetic modeling using measured AFM profiles. rDE refers to the ratio between diffracted power from the grating and reflected power from a mirror coated with the same material.

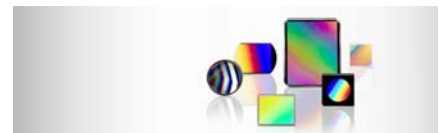
Blank specification

Material	ZKN7 (optical glass)
Radius of curvature	398.83 mm
Protective bevel (left surface)	0.5 mm



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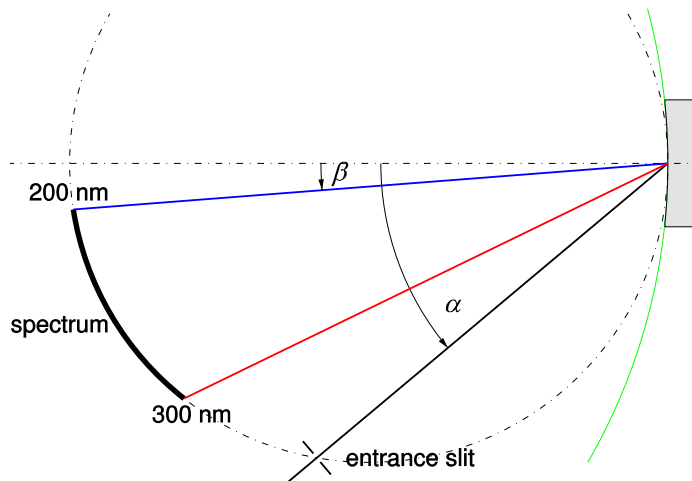


Order number 792061-0000-000

Grating specification

Groove density	3600 ± 1 l/mm
Groove profile	Sinusoidal
Diffraction grating area	≥ Ø 26 mm
Reflective coating	Aluminum (unprotected)
Grating master type	Holographically recorded
Grating type	Epoxy replica (copy)
Storage and transport temperature	-40 °C ... +70 °C (non-condensing environment)
Relative humidity	≤ 93 % (non-condensing environment)

Mounting specification (Schematic drawing)



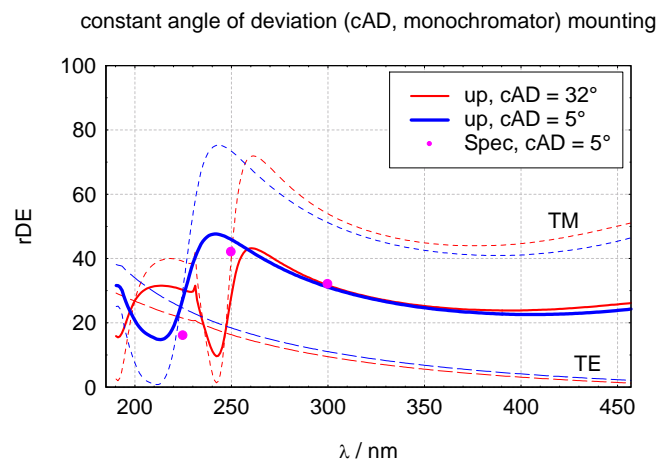
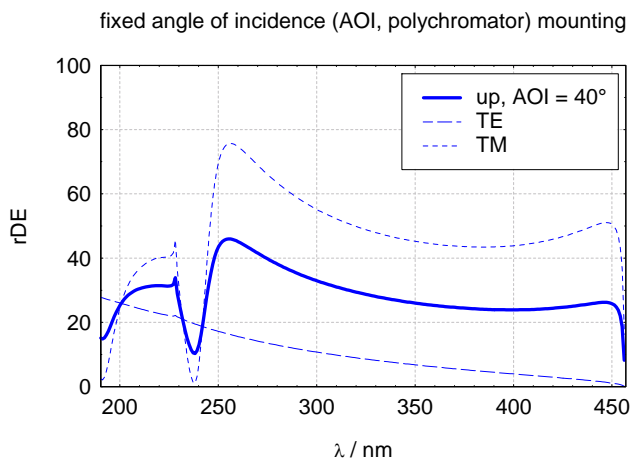
By historic convention clockwise incident and diffraction angles are positive.

Optical grating characteristics

Diffraction efficiency (unpolarized @ cAD = 5°)

225 nm	≥ 16 %
250 nm	≥ 42 %
300 nm	≥ 32 %

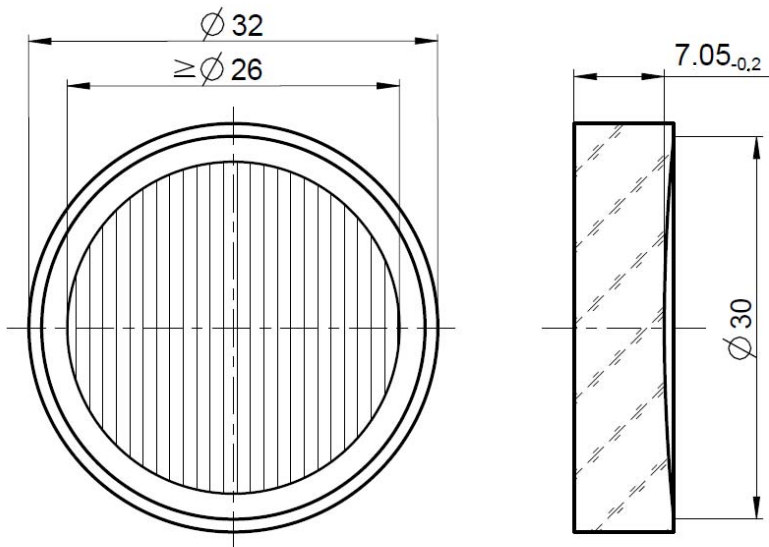
Typical relative diffraction efficiency (rDE) in first diffraction order



Typical efficiency curves based on rigorous electromagnetic modeling using measured AFM profiles. rDE refers to the ratio between diffracted power from the grating and reflected power from a mirror coated with the same material.

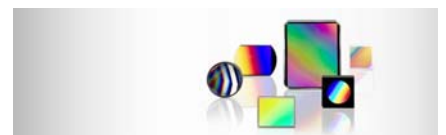
Blank specification

Material	Zerodur (extremely low expansion glass ceramic)
Radius of curvature	150.7 mm
Protective bevel (left surface)	0.5 mm



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Concave Grating Rowland Circle Mounting

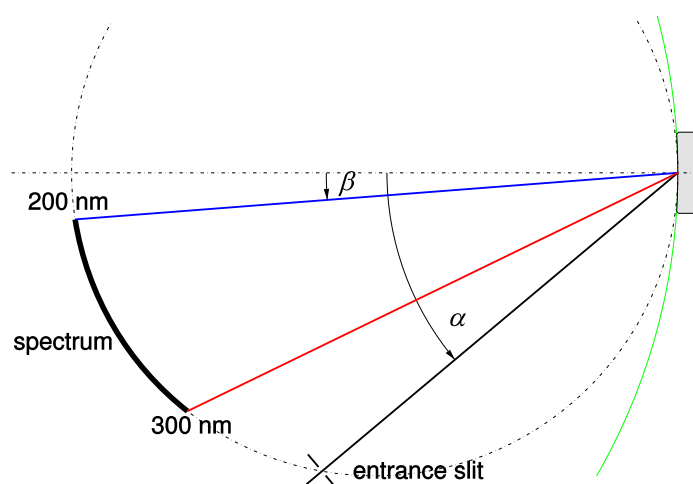


Order number 792104-0000-000

Grating specification

Groove density	3600 ± 1 l/mm
Groove profile	Sinusoidal
Diffraction grating area	≥ Ø 33 mm
Reflective coating	Aluminum (unprotected)
Grating master type	Holographically recorded
Grating type	Epoxy replica (copy)
Storage and transport temperature	-40 °C ... +70 °C (non-condensing environment)
Relative humidity	≤ 93 % (non-condensing environment)

Mounting specification (Schematic drawing)



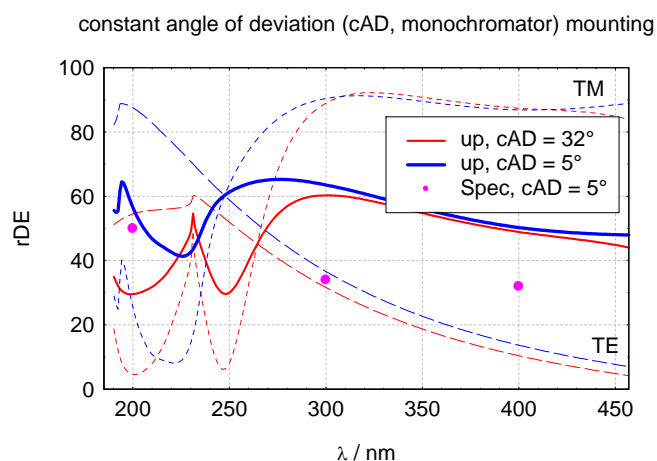
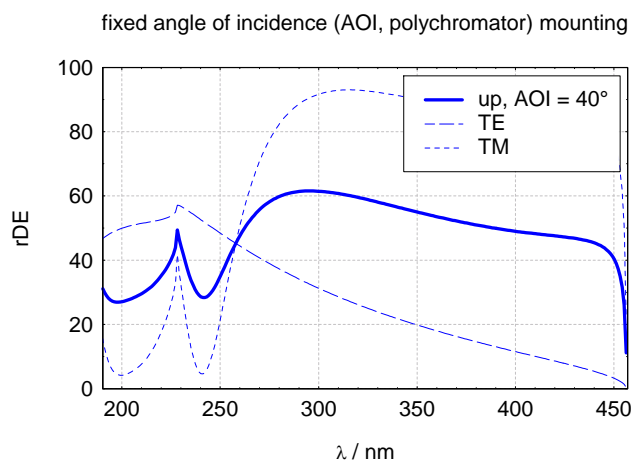
By historic convention clockwise incident and diffraction angles are positive.

Optical grating characteristics

Diffraction efficiency (unpolarized @ cAD = 5°)

200 nm	≥ 50 %
300 nm	≥ 34 %
400 nm	≥ 32 %

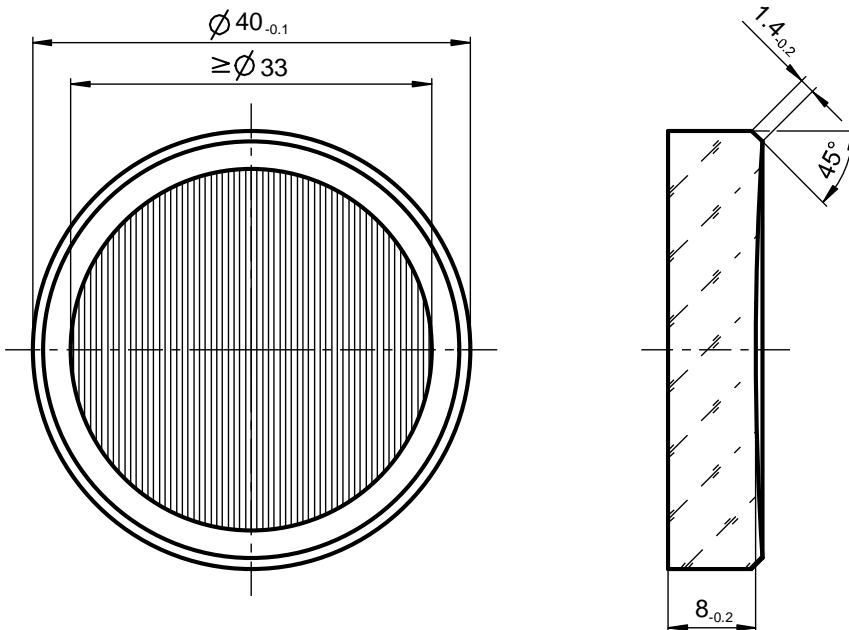
Typical relative diffraction efficiency (rDE) in first diffraction order



Typical efficiency curves based on rigorous electromagnetic modeling using measured AFM profiles. rDE refers to the ratio between diffracted power from the grating and reflected power from a mirror coated with the same material.

Blank specification

Material	Zerodur (extremely low expansion glass ceramic)
Radius of curvature	298.5 mm
Protective bevel (left surface)	0.5 mm



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