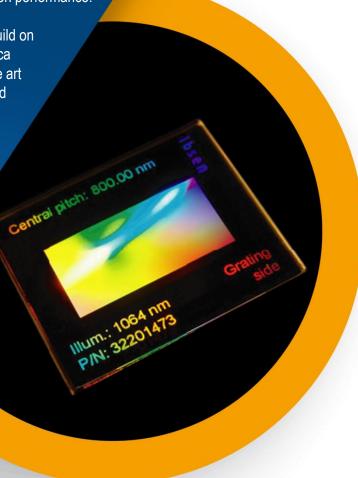
Ibsen Fused silica transmission grating technology offers unbeatable energy/power damage threshold combined with high-efficiency spectral performance



As femtosecond laser systems advance to ever increasing energy levels, demands to the energy/power handling capabilities of pulse compression gratings increase. Ibsen manufactures 100% fused silica pulse compression gratings that offer unbeatable energy/power handling capacity, combined with high-efficiency, low wavefront distortion performance.

Pulse compression gratings from Ibsen build on Ibsen's world leading position in fused silica transmission gratings, utilizing state-of-the art interferometric patterning technologies and advanced reactive ion etching technology. Gratings are manufactured on custom/OEM basis, but an increasing number of gratings are stock available, such as the grating described in this product sheet



# Pulse Compression Grating

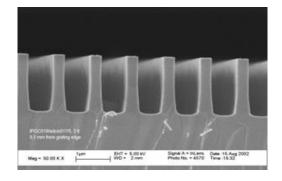
2660 I/mm for 532 nm

PCG-2660/532-812ds

# 2660 I/mm for 532 nm

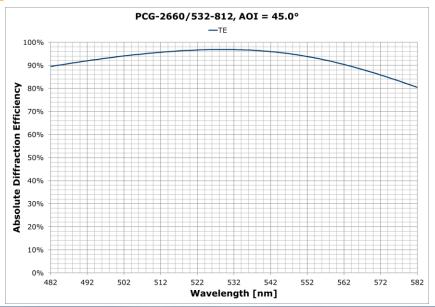
### PCG-2660/532-812ds

Benefits	
Highest energy/power damage threshold	
Environmentally and thermally stable	
High diffraction efficiency	
High tolerance to incidence angle	
Low transmitted wavefront distortion	



Parameter	Specification
Material	UV grade fused silica plus dielectric back-side AR coating
Grating area	100 mm x 70 mm
Substrate size	105 mm x 75 mm
Grating resolution	2660 l/mm
Dispersion at 532 nm	0.22 deg/nm
Central wavelength of operation	532 nm
Angle of incidence (AOI)	Littrow (45 degrees)
Diffraction efficiency (TE)	> 90%
Back-side AR coating	High power, dielectric AR coating applied
Energy/power damage threshold	http://ibsen.com/products/transmission-gratings/high-power-gratings

## **Typical Grating Performance**

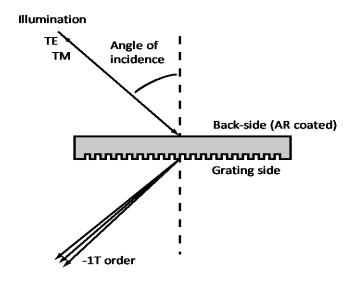




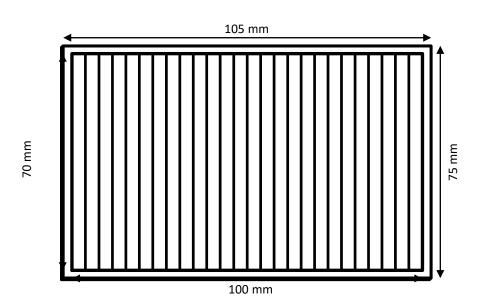
## 2660 I/mm for 532 nm

#### PCG-2660/532-812ds

### **Configuration / definitions**



#### **Drawing**



Specifications are subject to change without notice.

The above grating is an example of Ibsen's capabilities. Ibsen operates as grating partner for our customers, from being an integrated part of the grating and device / instrument design phase, to the manufacturing of prototypes, to volume manufacturing of OEM gratings.

