

UV Spectrometer Grating

2847 l/mm for 200-400 nm

Fused Silica Transmission Grating Technology

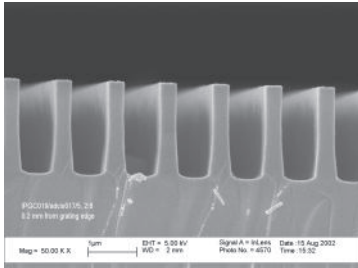
Fused silica transmission grating technology enables high resolution, high efficiency gratings that are ideal for compact spectrometers

Transmission gratings from Ibsen build on leadership in fused silica transmission grating technology. The superior performance of holography, combined with wafer-based Holostep™ processing, makes possible high resolution,

high efficiency, low noise gratings at the cost level of traditional reflection gratings. Each Ibsen grating is a holographic masterpiece - not a replica. Fused silica grating technology is equally suitable for UV, VIS and NIR wavelength regions.

UV Spectrometer Grating - 2847 l/mm for 200-400 nm

FSTG-UV2847-901

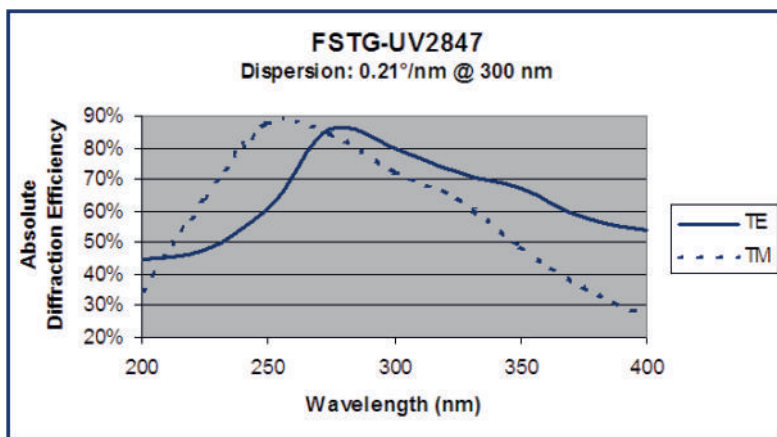


Features	
High performance of holography combined with the cost level of replicated gratings	
Unbeatable temperature stability, environmental tolerance and power damage threshold	
High diffraction efficiency combined with with high dispersion	
Low polarization dependence (PDL) over broad spectral range	
Transmission configuration offers flexible optical design and tolerant assembly requirements	
Low straylight and low wavefront distortion	

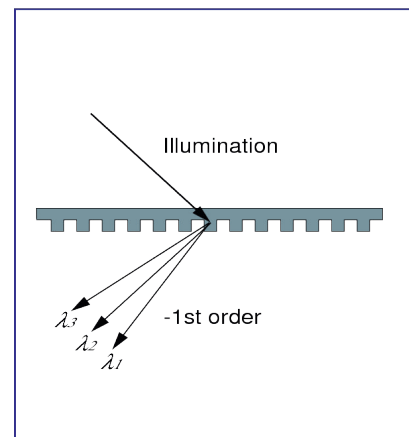
Specifications

Parameter	Specification	Comments
Materials	Fused silica	Surface relief, etched grating structure
Chip size	15 mm x 15 mm	
Chip thickness	0.625 mm	
Grating area	13.5 mm x 12.5 mm	
Grating resolution	2846.9 l/mm	+/- 1 l/mm
Dispersion @ 300 nm	0.21 deg/nm	
Angle of incidence (AOI)	20 deg	
Illumination bandwidth	200 nm - 400 nm	
Diffraction efficiency, unpolarized	> 30%	All wavelengths
Coefficient of thermal expansion (CTE)	0.5 ppm/K	
Maximum operating temperature	>500 degrees C	
Packaging and shipment	Gelpack containers	Manufactured and sealed in class 10 cleanroom
Cleaning recommendation	First Contact™	Available from Photonic Cleaning

Typical grating performance



Configuration sketch



Specifications are subject to change without notice.