

Transmissive Grating by NSG Group

Applications:

Telecom

ROADM

Channel Monitor

Mux/Demux

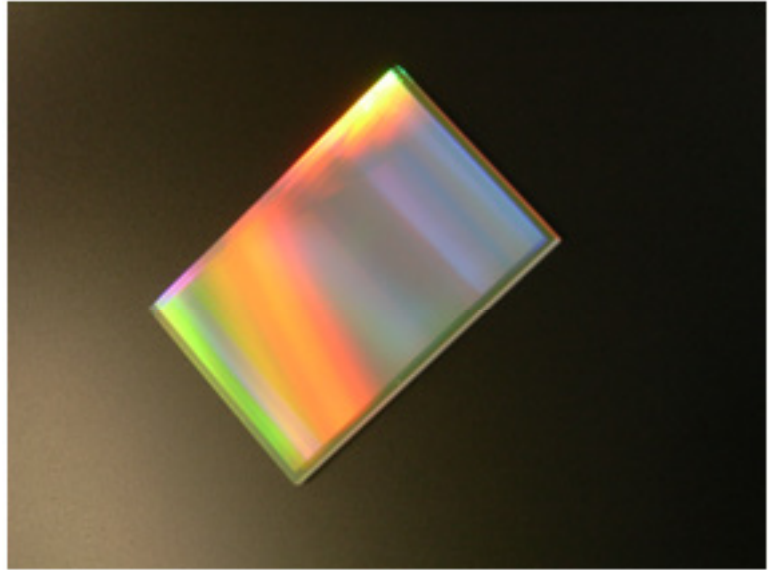
Laser

Pulse Compression

Beam Splitter

Tunable Laser

Spectrometer



Features:

High Optical Performance

High Diffraction Efficiency (>90%)

Low Polarization Dependent Loss (<0.2dB)

Wide Wavelength Range (C-band, L-band, C+L)

Low Angular Sensitivity (Easy to assemble)

Stable and Reliable

No Organic Materials

High Damage threshold for UV laser

RoHS 6/6 Compliant

Telcordia GR-1221 Compliant

Description:

NSG's Transmission Grating is fabricated with the newly developed technology that combines Thin Film Filter with Deep Dry Etching to have high diffraction efficiency and low PDL. It is made from inorganic materials only (no polymer, no epoxy and no gelatins) for high environmental stability /durability and complies with RoHS 6/6. Go!Foton works closely with NSG to design and provide various types of gratings to match custom specifications upon request.

Specifications:

Telecom

Parameter	Symbol	Unit	Min.	Typ.	Max.
Operating Wavelength Range	λ c	Nm	1528		1568
Diffraction Efficiency @lc	DE	%	90		
Polarization Dependent Loss @lc	PDL	dB			0.2
PDL Spatial Uniformity		dB			0.2
Resolution		L/mm		1000, 966, 940	
Angle of Incidence	AOI	deg		50-45 (*)	
Operating Temperature Range		°C	-5		+70
Storage Temperature Range		°C	-40		+85
Qualifications				Telcordia GR-1221-CO	

Laser (Pulse compression)

Parameter	Symbol	Unit	Min.	Typ.	Max.
Operating Wavelength Range	λ c	Nm	760	800	840
Diffraction Efficiency @lc	DE	%	90		
Resolution		L/mm		1250	

Laser (Beam Splitter)

Parameter	Symbol	Unit	Min.	Typ.	Max.
Operating Wavelength Range	λ c	Nm	760	800	840
Diffraction Efficiency @lc	DE	%	90		
Resolution		L/mm		1250	

Document # - GF-S-MKT-grating3-10