

Grating TBG-1085-99.9

Parameter	Value	Tolerance on parameters	Notes
Main grating parameters			
Type of a grating	TBG		
Resonant wavelength WL (nm)	1085	± 0.5	Peak (central) wavelength
Diffraction efficiency DE (%)	99.9	± 0.1	Relative DE defined for plane monochromatic wave
Additional grating parameters			
Incident angle IA (deg)	32.9	± 1.5	In air
Exit angle EA (deg)	-32.9	± 1.5	In air
Thickness T (mm)	2.0	± 0.1	
Width W (mm)	25	± 0.5	
Height H (mm)	25	± 0.5	
Clear aperture X×Y (mm ²)	22.5 × 22.5	± 0.5	90% of grating dimensions
Antireflection coating AR (if specified)	U		Uncoated
Reference Parameters			
Grating losses GL (%)	9.0	± 0.5	For uncoated grating at resonant wavelength
Angular selectivity AS (mrad)	0.65	± 0.05	FWHM
Spectral selectivity WS (nm)	1.2	± 0.1	FWHM
Grating period d (μm)	1.0	± 0.0003	
Refractive index	1.486651		At 1085 nm
Refractive index modulation RIM (ppm)	250	±10	Amplitude of sinusoidal modulation
Grating slant angle in a glass wafer SL (deg)	90	> 89	Inside the grating medium