

Grating RBG-980-80

Parameter	Value	Tolerance on parameters	Notes
Main grating parameters			
Type of a grating	RBG		
Resonant wavelength WL (nm)	980	± 0.5	Peak (central) wavelength
Diffraction efficiency DE (%)	80	± 2	Relative DE defined for plane monochromatic wave
Additional grating parameters			
Incident angle IA (deg)	0	± 1.5	In air
Exit angle EA (deg)	0	± 1.5	In air
Thickness T (mm)	3.5	± 0.1	
Width W (mm)	5	± 0.5	
Height H (mm)	25	± 0.5	
Clear aperture X×Y (mm ²)	4.5 × 22.5	± 0.5	90% of grating dimensions
Antireflection coating AR (if specified)	BB	R<0.25% per surface	Broadband (BB)
Reference Parameters			
Grating losses GL (%)	2.0	± 0.5	For gratings with AR coating at resonant wavelength
Angular selectivity AS (mrad)	21.5	± 0.5	FWHM
Spectral selectivity WS (nm)	0.1	± 0.02	FWHM
Grating period d (μm)	0.32997	± 0.00003	
Refractive index	1.487867		At 980 nm
Refractive index modulation RIM (ppm)	250	± 20	Amplitude of sinusoidal modulation
Grating slant angle in a glass wafer SL (deg)	0	± 1	Inside the grating medium