

These optical windows have high-quality and may be used when light is passed through the opposite side of the partition or in the vacuum chamber. Since the windows have anti-reflection coatings the transmittance is increased so they can be used as a window for laser irradiation windows and the observation of the sample.

- When you insert an window perpendicular to the optical path of the laser, the angle of the transmitted beam is not changed.
- Since the high laser threshold coating is applied on the low scattering substrate, it can be used for the high-energy pulsed laser.

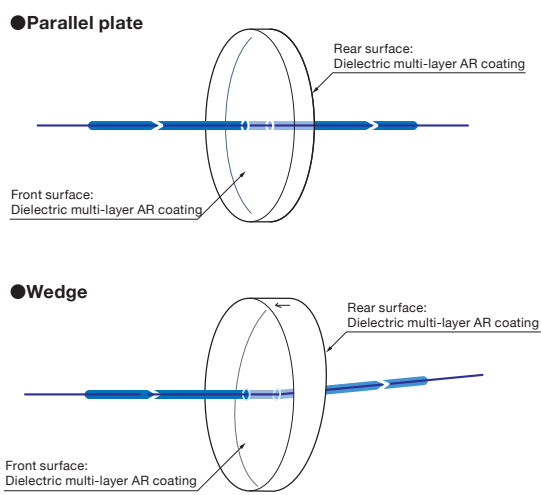


Specifications	
Material	Synthetic fused silica
Surface flatness of substrate	$\lambda/10$
Coating	Multi-layer anti-reflection coating
Transmittance	>99%
Incident angle	0°
Surface Quality (Scratch-Dig)	10-5
Clear aperture	90% of actual aperture

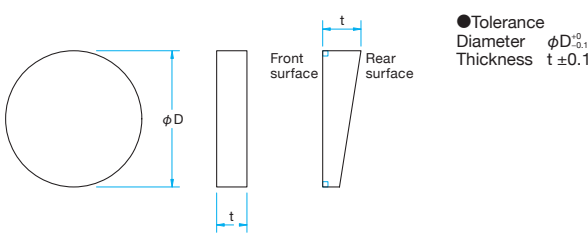
- Guide**
- ▶ We also offer AR coatings in accordance to your wavelength selection.
 - ▶ Product sizes and wedges which are not mentioned on our website or in this catalog are available, please ask our Sales Division.

- Attention**
- ▶ When wedge type windows are inserted into the optical path of the laser beam, the beam tilt of about 0.5° is expected.
 - ▶ When used at a wavelength other than the designed wavelength, the loss of transmitted light will be higher.
 - ▶ When used at a large incident angle, the transmittance may decrease. We can provide AR coatings with highest transmission at a specific angle of incidence upon request.
 - ▶ When using a high-energy laser with thin diameter, there is a possibility that damage may occur. Before using, make sure that the laser beam does not exceed the laser damage threshold.
 - ▶ Wedged substrates are marked with an arrow toward the direction of front surface at the thickest point.

Schematic



Outline Drawing (in mm)



Specifications						
Part Number	Wavelength Range [nm]	Diameter ϕD [mm]	Thickness t [mm]	Parallelism Wedge angle	Laser Damage Threshold* [J/cm ²]	
WSQNAHP-25.4C03-10-266	266	$\phi 25.4$	3	<5'	4	
WSQNAHP-30C03-10-266	266	$\phi 30$	3	<5'	4	
WSQNAHP-30C05-10W-266	266	$\phi 30$	5	1°±5'	4	
WSQNAHP-50C05-10-266	266	$\phi 50$	5	<5'	4	
WSQNAHP-50C08-10W-266	266	$\phi 50$	8	1°±5'	4	
WSQNAHP-25.4C03-10-355	355	$\phi 25.4$	3	<5'	4	
WSQNAHP-30C03-10-355	355	$\phi 30$	3	<5'	4	
WSQNAHP-30C05-10W-355	355	$\phi 30$	5	1°±5'	4	
WSQNAHP-50C05-10-355	355	$\phi 50$	5	<5'	4	
WSQNAHP-50C08-10W-355	355	$\phi 50$	8	1°±5'	4	
WSQNAHP-25.4C03-10-532	532	$\phi 25.4$	3	<5'	15	
WSQNAHP-30C03-10-532	532	$\phi 30$	3	<5'	15	
WSQNAHP-30C05-10W-532	532	$\phi 30$	5	1°±5'	15	
WSQNAHP-50C05-10-532	532	$\phi 50$	5	<5'	15	
WSQNAHP-50C08-10W-532	532	$\phi 50$	8	1°±5'	15	
WSQNAHP-25.4C03-10-1064	1064	$\phi 25.4$	3	<5'	20	
WSQNAHP-30C03-10-1064	1064	$\phi 30$	3	<5'	20	
WSQNAHP-30C05-10W-1064	1064	$\phi 30$	5	1°±5'	20	
WSQNAHP-50C05-10-1064	1064	$\phi 50$	5	<5'	20	
WSQNAHP-50C08-10W-1064	1064	$\phi 50$	8	1°±5'	20	

* Laser pulse width 10ns, repetition frequency 20Hz

Compatible Optic Mounts

LH-25.4S, -30S, -50S

Application Systems

Optics & Optical Coatings

Opto-Mechanics

Bases

Manual Stages

Actuators & Adjusters

MotORIZED Stages

Light Sources & Laser Safety

Index

Guide

Mirrors

Beamsplitters

Polarizers

Lenses

Multi-Element Optics

Filters

Prisms

Substrates/Windows

Optical Data

Maintenance

Selection Guide

Low Scattering

Optical Flats

Optical Parallels

Wedged Substrates

Concave Mirror Substrates

Master Optics

Windows