Optical Systems
Free Space Isolators
E-O Devices
Spherical Singlets
Multi-Element Lenses
Cylindrical Lenses
Aspheric Lenses
Mirrors
Diffusers & Lens Arrays
Windows
Prisms
Gratings
Polarization Optics
Beamsplitters
Filters & Attenuators
Gas Cells

Precision & Laser Windows

Precision windows are made from BK7 or UV fused silica and can be purchased with or without a broadband AR coating. Both sides of the window are polished and have a scratch-dig of 20-10.

Laser windows are made from BK7 or UV fused silica and are coated with a wavelength specific AR coating. To minimize scattering of light, the surfaces have a scratch-dig of 10-5.

Specifications

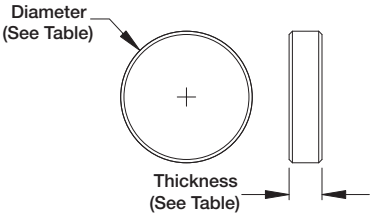
- **Parallelism:** 5arcsec
- **Thickness Tolerance:** ±0.3mm
- **Diameter Tolerance:** +0.0/-0.2mm
- **Materials:** BK7 or Fused Silica
- **Surface Quality:** λ/10 at 633nm

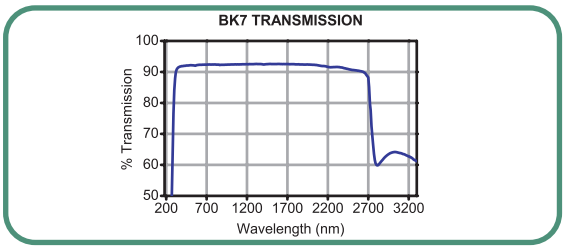
Precision Windows:

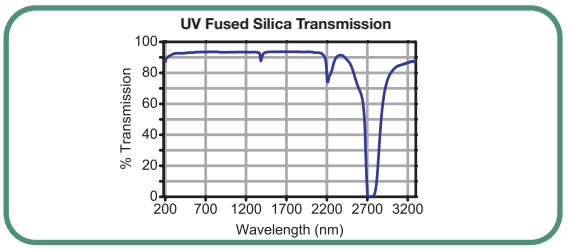
- **Scratch-Dig:** 20-10
- **Broadband AR Coating:** R_{ave}<0.5% at 0°±5° (See Page 699)

Laser Windows:

- **Scratch-Dig:** 10-5
- **Narrowband AR Coating:** R_{ave}<0.5% at 0°±5°







Precision Windows

ITEM#	$	£	€	RMB	DIAMETER (mm)	THICKNESS (mm)	MATERIAL	COATING (nm)	DAMAGE THRESHOLD
WG10530	$ 49.40	£ 31.10	€ 45,90	¥ 471.80	12.7	3.0	BK7	–	32.0J/cm² @ 10ns
WG10530-A	$ 78.30	£ 49.30	€ 72,80	¥ 747.80	12.7	3.0	BK7	350-650	1.0J/cm² @ 10ns
WG10530-B	$ 78.30	£ 49.30	€ 72,80	¥ 747.80	12.7	3.0	BK7	650-1050	1.0J/cm² @ 10ns
WG10530-C	$ 78.30	£ 49.30	€ 72,80	¥ 747.80	12.7	3.0	BK7	1050-1620	0.9J/cm² @ 10ns
WG11050	$ 72.10	£ 45.40	€ 67,10	¥ 688.60	25.4	5.0	BK7	–	32.0J/cm² @ 10ns
WG11050-A	$ 101.00	£ 63.60	€ 93,90	¥ 964.60	25.4	5.0	BK7	350-650	1.0J/cm² @ 10ns
WG11050-B	$ 101.00	£ 63.60	€ 93,90	¥ 964.60	25.4	5.0	BK7	650-1050	1.0J/cm² @ 10ns
WG11050-C	$ 101.00	£ 63.60	€ 93,90	¥ 964.60	25.4	5.0	BK7	1050-1620	0.9J/cm² @ 10ns
WG40530	$ 61.80	£ 38.90	€ 57,50	¥ 590.20	12.7	3.0	Fused Silica	–	32.0J/cm² @ 10ns
WG40530-A	$ 90.60	£ 57.10	€ 84,30	¥ 865.20	12.7	3.0	Fused Silica	350-650	1.0J/cm² @ 10ns
WG40530-B	$ 90.60	£ 57.10	€ 84,30	¥ 865.20	12.7	3.0	Fused Silica	650-1050	1.0J/cm² @ 10ns
WG40530-C	$ 90.60	£ 57.10	€ 84,30	¥ 865.20	12.7	3.0	Fused Silica	1050-1620	0.9J/cm² @ 10ns
WG41050	$ 82.40	£ 51.90	€ 76,60	¥ 786.90	25.4	5.0	Fused Silica	–	32.0J/cm² @ 10ns
WG41050-A	$ 111.00	£ 69.90	€ 103,20	¥ 1,060.10	25.4	5.0	Fused Silica	350-650	1.0J/cm² @ 10ns
WG41050-B	$ 111.00	£ 69.90	€ 103,20	¥ 1,060.10	25.4	5.0	Fused Silica	650-1050	1.0J/cm² @ 10ns
WG41050-C	$ 111.00	£ 69.90	€ 103,20	¥ 1,060.10	25.4	5.0	Fused Silica	1050-1620	0.9J/cm² @ 10ns

Laser Windows

ITEM#	$	£	€	RMB	DIAMETER (mm)	THICKNESS (mm)	MATERIAL	COATING (nm)	DAMAGE THRESHOLD
WL41050-C3	$ 173.00	£ 109.00	€ 160,90	¥ 1,652.20	25.4	5.0	Fused Silica	261-266	5.0J/cm² @ 10ns
WL41050-C5	$ 103.00	£ 64.90	€ 95,80	¥ 983.70	25.4	5.0	Fused Silica	351-355	5.0J/cm² @ 10ns
WL41050-C6	$ 173.00	£ 109.00	€ 160,90	¥ 1,652.20	25.4	5.0	Fused Silica	350-450	5.0J/cm² @ 10ns
WL11050-C7	$ 169.00	£ 106.50	€ 157,20	¥ 1,614.00	25.4	5.0	BK7	400-700	2.5J/cm² @ 10ns
WL11050-C8	$ 169.00	£ 106.50	€ 157,20	¥ 1,614.00	25.4	5.0	BK7	454-529	50MW/cm² CW
WL11050-C10	$ 169.00	£ 106.50	€ 157,20	¥ 1,614.00	25.4	5.0	BK7	523-532	5.0J/cm² @ 10ns
WL11050-C11	$ 169.00	£ 106.50	€ 157,20	¥ 1,614.00	25.4	5.0	BK7	610-860	5.0J/cm² @ 10ns
WL11050-C13	$ 169.00	£ 106.50	€ 157,20	¥ 1,614.00	25.4	5.0	BK7	700-1100	50MW/cm² CW
WL11050-C14	$ 169.00	£ 106.50	€ 157,20	¥ 1,614.00	25.4	5.0	BK7	1047-1064	20.0J/cm² @ 10ns
WL11050-C15	$ 169.00	£ 106.50	€ 157,20	¥ 1,614.00	25.4	5.0	BK7	523-532 & 1047-1064	5.0J/cm² @ 10ns