

WINDOWS CATALOG

Ver.260203



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10 DAYS LENS SAMPLING



K9 Windows



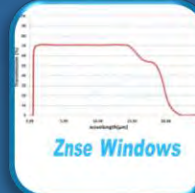
Fused Silica Windows



Sapphire Windows



Germanium Windows



Znse Windows



Zns Windows

Z-OPTICS LIMITED

Laos Factory

B7 Building, Borten
Special Economic Zone,
Luang Namtha
Province, Laos

+856-2052054302

China

Zhejiang Province, China

linjiali

13706776900

+86-13706776900

India

Noida, U.P.

India

vaibhav.mohale1

+91-9028420101

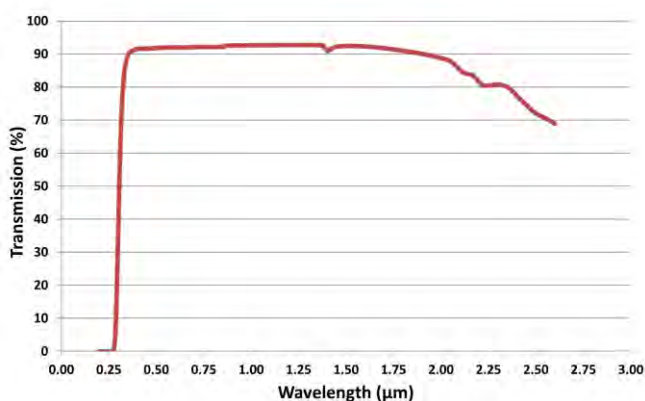


sales@z-optics.com

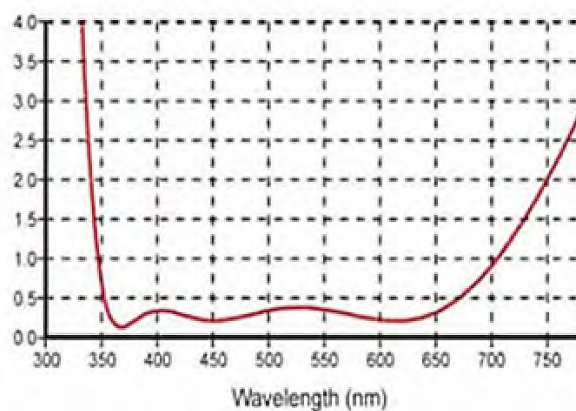
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K9 Windows Standard Precision

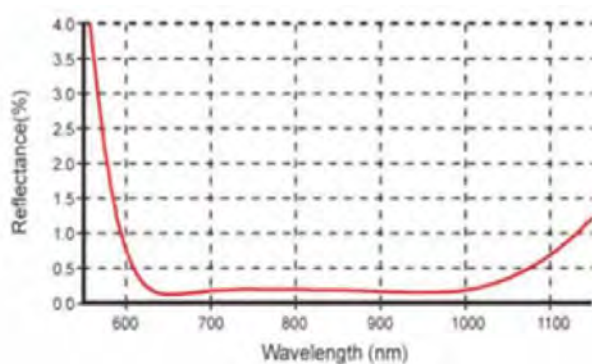
- **Material:** CDGM H-K9L
- **Surface Figure:** $\lambda/4@633\text{nm}$
- **Parallelism:** $<30''$
- **Surface Quality:** 60-40 scratch and dig
- **Diameter Tolerance:** $+0.0/-0.1\text{mm}$
- **Thickness Tolerance:** $\pm 0.2\text{mm}$
- **Chamfer:** $0.2\sim 0.5\text{mm} \times 45^\circ$



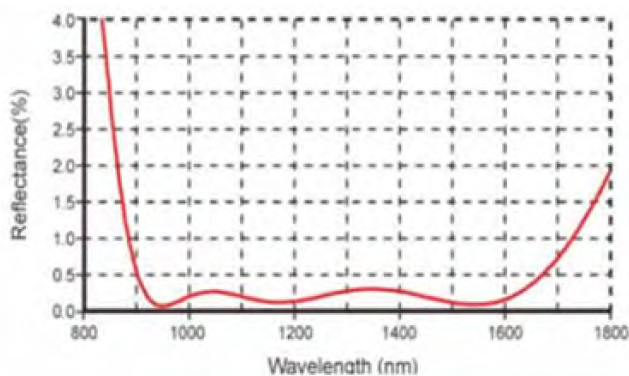
H-K9L Transmittance @10mm thickness



VIS coating@350~700nm



NIR coating @600~1100nm



SWIR Coating@900~1700nm



K9 Windows Standard Precision

- **Material:** CDGM H-K9L
- **Surface Figure:** $\lambda/4@633\text{nm}$
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- **Diameter Tolerance:** $+0.0/-0.1\text{mm}$
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- **Chamfer:** $0.2\sim 0.5\text{mm} \times 45^\circ$

Diameter (mm)	Thickness (mm)	No Coating	AR@350~700nm	AR@600~1100nm	AR@900~1700nm
		Part No	Part No	Part No	Part No
5.0	2	WIN0050-020-30	WIN0050-020-30-VIS	WIN0050-020-30-NIR	WIN0050-020-30-SWIR
10.0	2	WIN0100-020-30	WIN0100-020-30-VIS	WIN0100-020-30-NIR	WIN0100-020-30-SWIR
12.5	2	WIN0125-020-30	WIN0125-020-30-VIS	WIN0125-020-30-NIR	WIN0125-020-30-SWIR
12.7	2	WIN0127-020-30	WIN0127-020-30-VIS	WIN0127-020-30-NIR	WIN0127-020-30-SWIR
20.0	2	WIN0200-020-30	WIN0200-020-30-VIS	WIN0200-020-30-NIR	WIN0200-020-30-SWIR
25.0	4	WIN0250-040-30	WIN0250-040-30-VIS	WIN0250-040-30-NIR	WIN0250-040-30-SWIR
25.4	4	WIN0254-040-30	WIN0254-040-30-VIS	WIN0254-040-30-NIR	WIN0254-040-30-SWIR
30.0	4	WIN0300-040-30	WIN0300-040-30-VIS	WIN0300-040-30-NIR	WIN0300-040-30-SWIR
38.1	4	WIN0381-040-30	WIN0381-040-30-VIS	WIN0381-040-30-NIR	WIN0381-040-30-SWIR
50.0	4	WIN0500-040-30	WIN0500-040-30-VIS	WIN0500-040-30-NIR	WIN0500-040-30-SWIR
50.8	4	WIN0508-040-30	WIN0508-040-30-VIS	WIN0508-040-30-NIR	WIN0508-040-30-SWIR

Unless otherwise specified, all dimensions are in mm



K9 Windows High Precision

- **Material:** H-K9L
- **Surface Figure:** $\lambda/10@633\text{nm}$
- **Parallelism:** $<5''$
- **Surface Quality:** 40-20 Scratch and Dig
- **Diameter Tolerance:** $+0.0/-0.1\text{mm}$
- **Thickness Tolerance:** $\pm 0.2\text{mm}$
- **Chamfer:** Protective chamfer $0.2\sim 0.5\text{mm} \times 45^\circ$

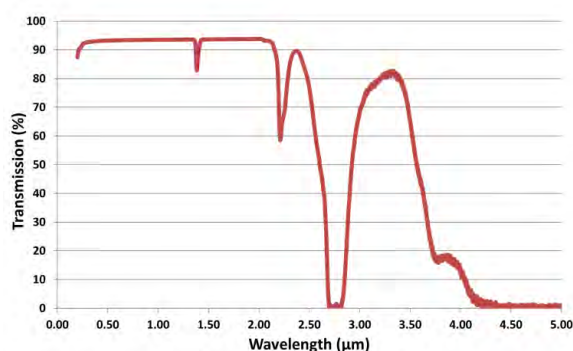
Diameter (mm)	Thickness (mm)	No Coating	AR@350~700nm	AR@600~1100nm	AR@900~1700nm
		Part No	Part No	Part No	Part No
5.0	2	WIN0050-020-05	WIN0050-020-05-VIS	WIN0050-020-05-NIR	WIN0050-020-05-SWIR
10.0	2	WIN0100-020-05	WIN0100-020-05-VIS	WIN0100-020-05-NIR	WIN0100-020-05-SWIR
12.5	3	WIN0125-030-05	WIN0125-030-05-VIS	WIN0125-030-05-NIR	WIN0125-030-05-SWIR
12.7	3	WIN0127-030-05	WIN0127-030-05-VIS	WIN0127-030-05-NIR	WIN0127-030-05-SWIR
20.0	4	WIN0200-040-05	WIN0200-040-05-VIS	WIN0200-040-05-NIR	WIN0200-040-05-SWIR
25.0	6	WIN0250-060-05	WIN0250-060-05-VIS	WIN0250-060-05-NIR	WIN0250-060-05-SWIR
25.4	6	WIN0254-060-05	WIN0254-060-05-VIS	WIN0254-060-05-NIR	WIN0254-060-05-SWIR
30.0	6	WIN0300-060-05	WIN0300-060-05-VIS	WIN0300-060-05-NIR	WIN0300-060-05-SWIR
38.1	10	WIN0381-100-05	WIN0381-100-05-VIS	WIN0381-100-05-NIR	WIN0381-100-05-SWIR
50.0	10	WIN0500-100-05	WIN0500-100-05-VIS	WIN0500-100-05-NIR	WIN0500-100-05-SWIR
50.8	10	WIN0508-100-05	WIN0508-100-05-VIS	WIN0508-100-05-NIR	WIN0508-100-05-SWIR

Unless otherwise specified, all dimensions are in mm

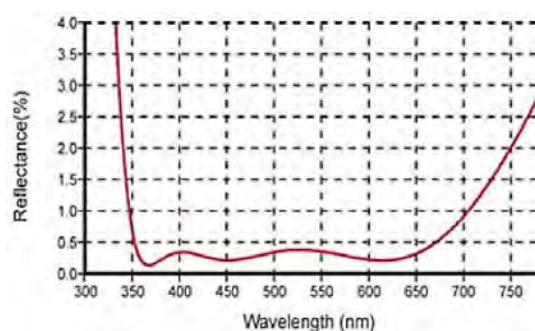


Fused Silica Windows standard precision

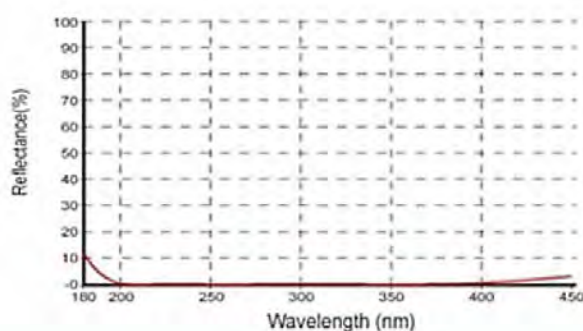
- **Material:** Fused Silica
- **Surface Figure:** $\lambda/4@633\text{nm}$
- **Parallelism:** $<30''$
- **Surface Quality:** 60-40 scratch and dig
- **Diameter Tolerance:** $+0.0/-0.1\text{ mm}$
- **Thickness Tolerance:** $\pm 0.2\text{mm}$
- **Chamfer:** Protective chamfer $0.2\sim 0.5\text{mm}\times 45^\circ$



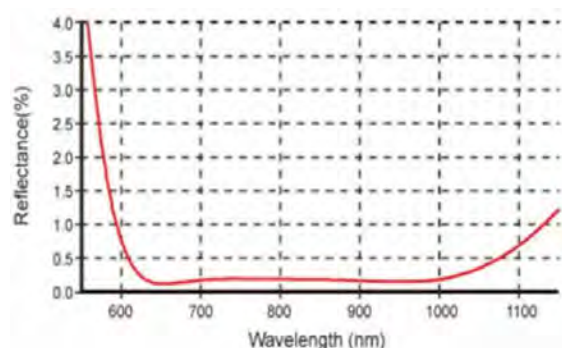
UV fused silica transmittance @10mm thickness



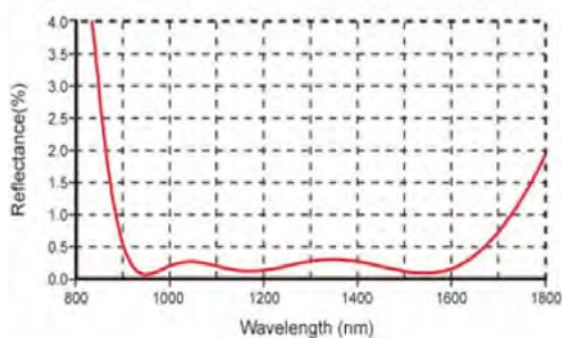
VIS coating@350~700nm



UV coating @ 250~400nm



NIR coating @600~1100nm



SWIR coating @900~1700nm



Fused Silica Windows standard precision

- **Material:** Fused Silica
- **Surface Figure:** $\lambda/4@633\text{nm}$
- **Parallelism:** $<30''$
- **Surface Quality:** 60-40 scratch and dig
- **Diameter Tolerance:** $+0.0/-0.1\text{ mm}$
- **Thickness Tolerance:** $\pm 0.2\text{mm}$
- **Chamfer:** Protective chamfer $0.2\sim 0.5\text{mm} \times 45^\circ$

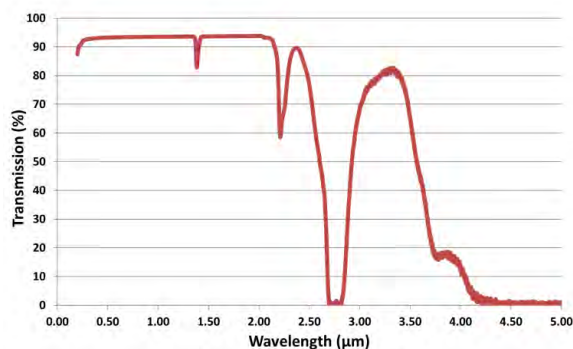
Diameter (mm)	Thickness (mm)	No Coating	AR@250~425nm	AR@350~700nm	AR@600~1100nm	AR@900~1700nm
		Part No	Part No	Part No	Part No	Part No
5.0	2	WIN0050-020-30-FS	WIN0050-020-30-FS-UV	WIN0050-020-30-FS-VIS	WIN0050-020-30-FS-NIR	WIN0050-020-30-FS-SWIR
10.0	2	WIN0100-020-30-FS	WIN0100-020-30-FS-UV	WIN0100-020-30-FS-VIS	WIN0100-020-30-FS-NIR	WIN0100-020-30-FS-SWIR
12.5	2	WIN0125-020-30-FS	WIN0125-020-30-FS-UV	WIN0125-020-30-FS-VIS	WIN0125-020-30-FS-NIR	WIN0125-020-30-FS-SWIR
12.7	2	WIN0127-020-30-FS	WIN0127-020-30-FS-UV	WIN0127-020-30-FS-VIS	WIN0127-020-30-FS-NIR	WIN0127-020-30-FS-SWIR
20.0	2	WIN0200-020-30-FS	WIN0200-020-30-FS-UV	WIN0200-020-30-FS-VIS	WIN0200-020-30-FS-NIR	WIN0200-020-30-FS-SWIR
25.0	2	WIN0250-020-30-FS	WIN0250-020-30-FS-UV	WIN0250-020-30-FS-VIS	WIN0250-020-30-FS-NIR	WIN0250-020-30-FS-SWIR
25.4	2	WIN0254-020-30-FS	WIN0254-020-30-FS-UV	WIN0254-020-30-FS-VIS	WIN0254-020-30-FS-NIR	WIN0254-020-30-FS-SWIR
30.0	3	WIN0300-030-30-FS	WIN0300-030-30-FS-UV	WIN0300-030-30-FS-VIS	WIN0300-030-30-FS-NIR	WIN0300-030-30-FS-SWIR
38.1	4	WIN0381-004-30-FS	WIN0381-004-30-FS-UV	WIN0381-004-30-FS-VIS	WIN0381-004-30-FS-NIR	WIN0381-004-30-FS-SWIR
50.0	4	WIN0500-004-30-FS	WIN0500-004-30-FS-UV	WIN0500-004-30-FS-VIS	WIN0500-004-30-FS-NIR	WIN0500-004-30-FS-SWIR
50.8	4	WIN0508-004-30-FS	WIN0508-004-30-FS-UV	WIN0508-004-30-FS-VIS	WIN0508-004-30-FS-NIR	WIN0508-004-30-FS-SWIR

Unless otherwise specified, all dimensions are in mm

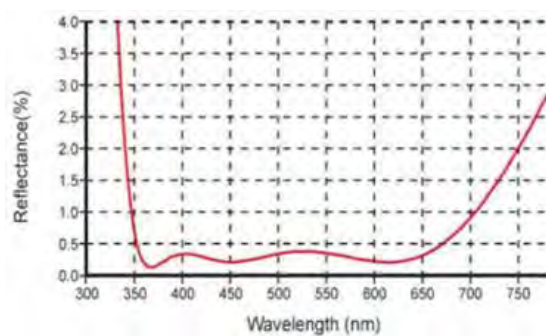


Fused Silica Windows high precision

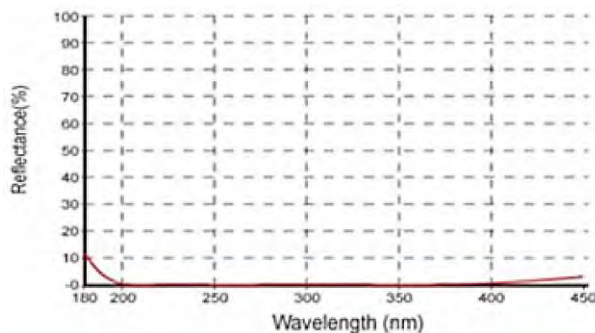
- **Material:** Fused Silica
- **Surface Figure:** $\lambda/10@633\text{nm}$
- **Parallelism:** $<5''$
- **Surface Quality:** 40-20 Scratch and Dig
- **Diameter Tolerance:** $+0.0/-0.1\text{mm}$
- **Thickness Tolerance:** $\pm 0.2\text{mm}$
- **Chamfer:** Protective chamfer $0.2\sim 0.5\text{mm} \times 45^\circ$
- **Coating:** see product list



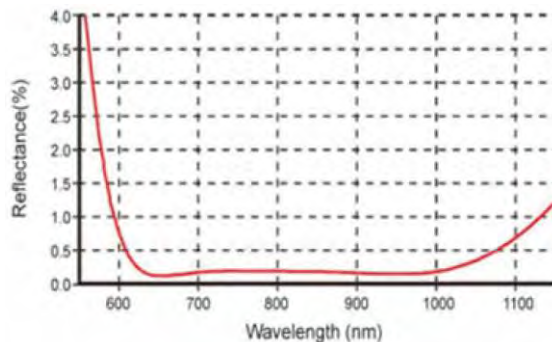
UV Fused Silica Transmission @10mm thickness



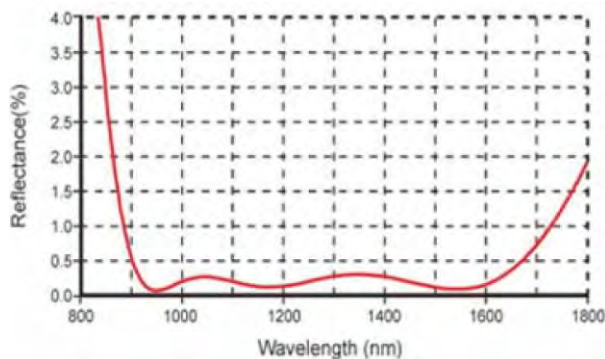
VIS coating @350~700nm



UV coating @250~400nm



NIR coating @600~1100nm



SWIR Coating @900~1700nm



Fused Silica Windows high precision

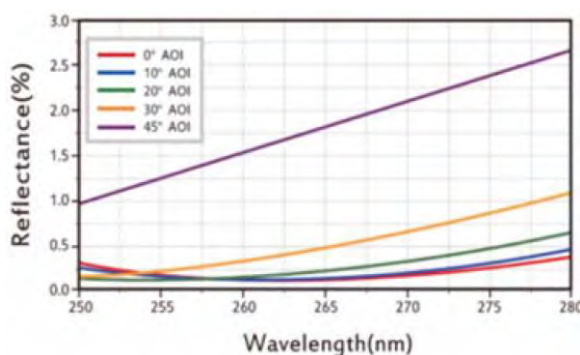
- **Material:** Fused Silica
- **Surface Figure:** $\lambda/10@633\text{nm}$
- **Parallelism:** $<5''$
- **Surface Quality:** 40-20 Scratch and Dig
- **Diameter Tolerance:** $+0.0/-0.1\text{mm}$
- **Thickness Tolerance:** $\pm 0.2\text{mm}$
- **Chamfer:** Protective chamfer $0.2\sim 0.5\text{mm} \times 45^\circ$
- **Coating:** see product list

Diameter (mm)	Thickness (mm)	No Coating	AR@250~425nm	AR@350~700nm	AR@600~1100nm	AR@900~1700nm
		Part No	Part No	Part No	Part No	Part No
5.0	2	WIN0050-020-05-FS	WIN0050-020-05-FS-UV	WIN0050-020-05-FS-VIS	WIN0050-020-05-FS-NIR	WIN0050-020-05-FS-SWIR
10.0	2	WIN0100-020-05-FS	WIN0100-020-05-FS-UV	WIN0100-020-05-FS-VIS	WIN0100-020-05-FS-NIR	WIN0100-020-05-FS-SWIR
12.5	3	WIN0125-030-05-FS	WIN0125-030-05-FS-UV	WIN0125-030-05-FS-VIS	WIN0125-030-05-FS-NIR	WIN0125-030-05-FS-SWIR
12.7	3	WIN0127-030-05-FS	WIN0127-030-05-FS-UV	WIN0127-030-05-FS-VIS	WIN0127-030-05-FS-NIR	WIN0127-030-05-FS-SWIR
20.0	3	WIN0200-030-05-FS	WIN0200-030-05-FS-UV	WIN0200-030-05-FS-VIS	WIN0200-030-05-FS-NIR	WIN0200-030-05-FS-SWIR
25.0	6	WIN0250-060-05-FS	WIN0250-060-05-FS-UV	WIN0250-060-05-FS-VIS	WIN0250-060-05-FS-NIR	WIN0250-060-05-FS-SWIR
25.4	6	WIN0254-060-05-FS	WIN0254-060-05-FS-UV	WIN0254-060-05-FS-VIS	WIN0254-060-05-FS-NIR	WIN0254-060-05-FS-SWIR
30.0	10	WIN0300-010-05-FS	WIN0300-010-05-FS-UV	WIN0300-010-05-FS-VIS	WIN0300-010-05-FS-NIR	WIN0300-010-05-FS-SWIR
38.1	10	WIN0381-010-05-FS	WIN0381-010-05-FS-UV	WIN0381-010-05-FS-VIS	WIN0381-010-05-FS-NIR	WIN0381-010-05-FS-SWIR
50.0	10	WIN0500-010-05-FS	WIN0500-010-05-FS-UV	WIN0500-010-05-FS-VIS	WIN0500-010-05-FS-NIR	WIN0500-010-05-FS-SWIR
50.8	10	WIN0508-010-05-FS	WIN0508-010-05-FS-UV	WIN0508-010-05-FS-VIS	WIN0508-010-05-FS-NIR	WIN0508-010-05-FS-SWIR

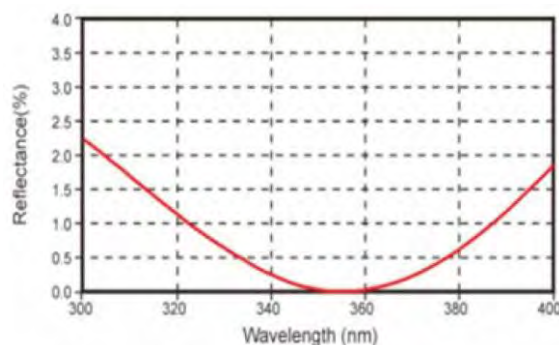


Fused Silica Windows Laser Line

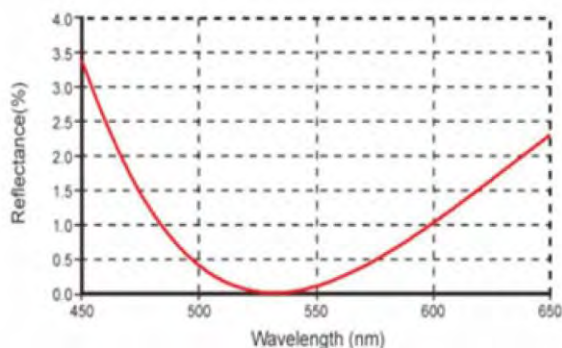
- **Material:** Fused Silica
- **Surface Figure:** $\lambda/10$ @633nm
- **Parallelism:** <5"
- **Surface Quality:** 40-20 Scratch and dig
- **Diameter Tolerance:** + 0.0/-0.1 mm
- **Thickness Tolerance:** ± 0.2 mm
- **Chamfer:** Protective chamfer 0.2~0.5mmX45°



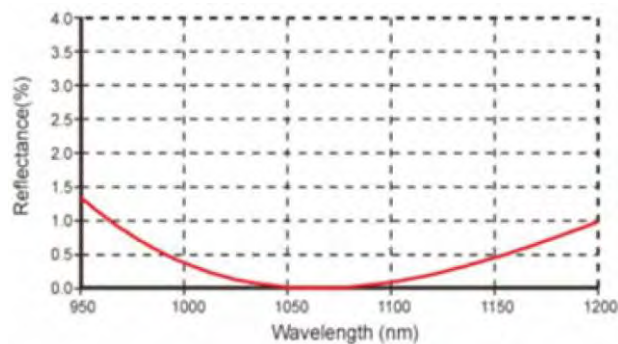
V coating R<0.25%266nm



V coating R<0.25%355nm



V coating R<0.25%532nm



V coating R<0.25%1064nm



Fused Silica Windows Laser Line

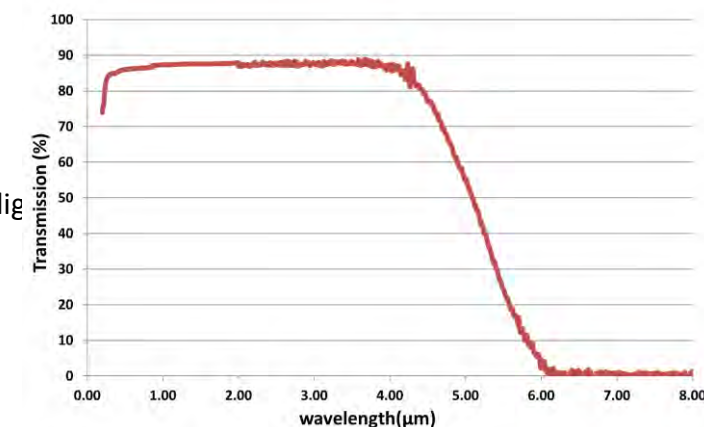
- **Material:** Fused Silica
- **Surface Figure:** $\lambda/10$ @633nm
- **Parallelism:** <5"
- **Surface Quality:** 40-20 Scratch and dig
- **Diameter Tolerance:** + 0.0/-0.1 mm
- **Thickness Tolerance:** ± 0.2 mm
- **Chamfer:** Protective chamfer 0.2~0.5mmX45°

Diameter (mm)	Thickness (mm)	R<0.25% @266nm	R<0.25% @355nm	R<0.25%@532nm	R<0.25%@1064nm
		Part No	Part No	Part No	Part No
5.0	2	WIN0050-020-05-FS-V266	WIN0050-020-05-FS-V355	WIN0050-020-05-FS-V532	WIN0050-020-05-FS-V1064
10.0	2	WIN0100-020-05-FS-V266	WIN0100-020-05-FS-V355	WIN0100-020-05-FS-V532	WIN0100-020-05-FS-V1064
12.5	3	WIN0125-030-05-FS-V266	WIN0125-030-05-FS-V355	WIN0125-030-05-FS-V532	WIN0125-030-05-FS-V1064
12.7	3	WIN0127-030-05-FS-V266	WIN0127-030-05-FS-V355	WIN0127-030-05-FS-V532	WIN0127-030-05-FS-V1064
20.0	6	WIN0200-060-05-FS-V266	WIN0200-060-05-FS-V355	WIN0200-060-05-FS-V532	WIN0200-060-05-FS-V1064
25.0	6	WIN0250-060-05-FS-V266	WIN0250-060-05-FS-V355	WIN0250-060-05-FS-V532	WIN0250-060-05-FS-V1064
25.4	10	WIN0254-010-05-FS-V266	WIN0254-010-05-FS-V355	WIN0254-010-05-FS-V532	WIN0254-010-05-FS-V1064
30.0	10	WIN0300-010-05-FS-V266	WIN0300-010-05-FS-V355	WIN0300-010-05-FS-V532	WIN0300-010-05-FS-V1064
38.1	10	WIN0381-010-05-FS-V266	WIN0381-010-05-FS-V355	WIN0381-010-05-FS-V532	WIN0381-010-05-FS-V1064
50.0	10	WIN0500-010-05-FS-V266	WIN0500-010-05-FS-V355	WIN0500-010-05-FS-V532	WIN0500-010-05-FS-V1064
50.8	10	WIN0508-010-05-FS-V266	WIN0508-010-05-FS-V355	WIN0508-010-05-FS-V532	WIN0508-010-05-FS-V1064



Sapphire Windows - Standard

- **Material:** Sapphire
- **Surface Figure:** 1~2 λ @633nm
- **parallelism:** <3'
- **Surface Quality:** 80-50 Scratch and dig
- **Diameter Tolerance:** +0.0/-0.1mm
- **Thickness Tolerance:** ± 0.1 mm
- **Chamfer:** Protective chamfer
0.2~0.5mmX45°
- **Coating:** None



Sapphire Windows transmission

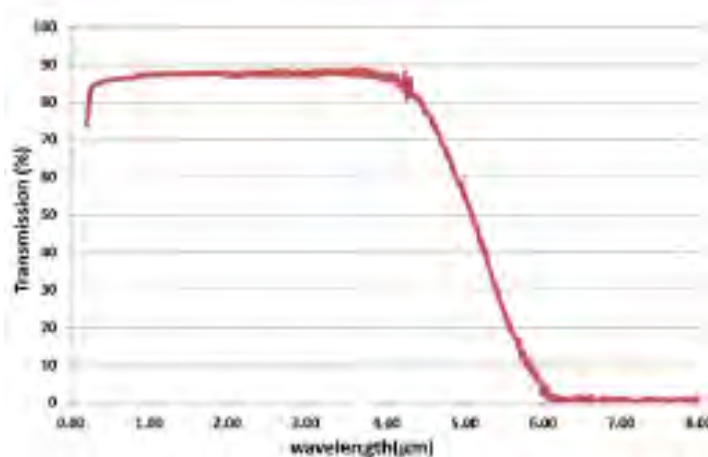
Part no	Diameter (mm)	Thickness (mm)
WIN0030-005-180-SP	3	0.5
WIN0050-005-180-SP	5	0.5
WIN0063-005-180-SP	6.3	0.5
WIN0080-010-180-SP	8	1
WIN0100-010-180-SP	10	1
WIN0125-010-180-SP	12.5	1
WIN0200-010-180-SP	20	1
WIN0250-010-180-SP	25	1
WIN0250-045-180-SP	25	4.5
WIN0320-090-180-SP	32	9
WIN0380-010-180-SP	38	1
WIN0480-030-180-SP	48	3
WIN0500-0R5-180-SP	50	0.05
WIN0500-001-180-SP	50	0.1
WIN0500-004-180-SP	50	0.4
WIN0500-2R5-180-SP	50	0.25
WIN0500-050-180-SP	50	0.5
WIN0500-010-180-SP	50	1
WIN0500-020-180-SP	50	2
WIN01000-003-180-SP	100	0.3
WIN01000-006-180-SP	100	0.6
WIN01000-010-180-SP	100	1
WIN01500-010-180-SP	150	1
WIN01500-015-180-SP	150	1.5
WIN02000-010-180-SP	200	1



Unless otherwise specified, all dimensions are in mm

Sapphire Windows - High Precision

- **Material:** Sapphire
- **Surface Figure:** $\lambda/4@633\text{nm}$
- **parallelism:** $< 30''$
- **Surface Quality:** 40-20 Scratch and dig
- **Diameter Tolerance:** $+0.0/-0.1\text{mm}$
- **Thickness Tolerance:** $\pm 0.1\text{mm}$
- **Chamfer:** Protective chamfer $0.2\sim 0.5\text{mm} \times 45^\circ$
- **Coating:** None



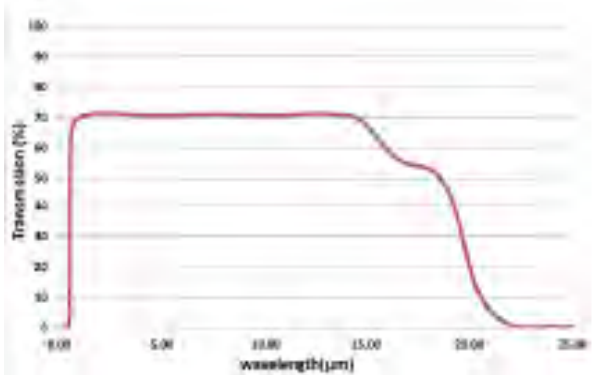
Sapphire Windows transmission

Part no	Diameter (mm)	Thickness (mm)
WIN0030-010-30-SP	3	1
WIN0050-010-30-SP	5	1
WIN0063-010-30-SP	6.3	1
WIN0080-010-30-SP	8	1
WIN0100-010-30-SP	10	1
WIN0125-010-30-SP	12.5	1
WIN0125-020-30-SP	12.5	2
WIN0200-010-30-SP	20	1
WIN0200-020-30-SP	20	2
WIN0250-010-30-SP	25	1
WIN0250-020-30-SP	25	2

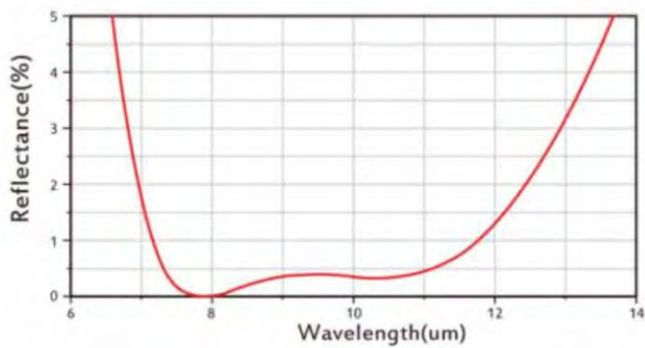
Unless otherwise specified, all dimensions are in mm

ZnSe Windows

- **Material:** ZnSe
- **Surface Figure:** 1 λ@633nm
- **Parallelism:** <1'
- **Surface Quality:** 60-40 Scratch and dig
- **Diameter Tolerance:** +0.0/-0.1mm
- **Thickness Tolerance:** ±0.1mm
- **Chamfer:** Protective chamfer 0.2mmX45°
- **Coating:** see product list



ZnSe Transmission



IR2 Coating @8~12μm

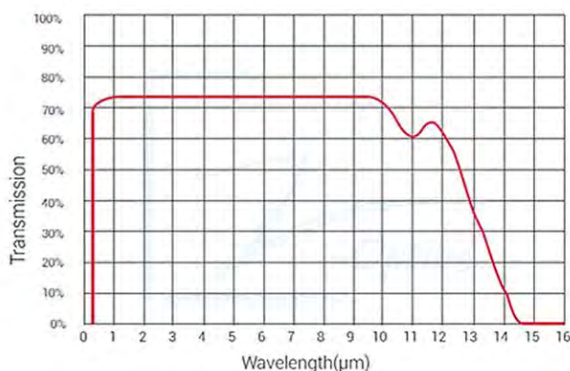
Part No	Diameter (mm)	Thickness(mm)	Coating
WIN0125-030-60-ZnSe	12.5	3.0	none
WIN0125-030-60-ZnSe	12.5	3.0	AR Ravg<1% 8~12μm
WIN0127-030-60-ZnSe	12.7	3.0	none
WIN0127-030-60-ZnSe	12.7	3.0	AR Ravg<1% 8~12μm
WIN0220-020-60-ZnSe	22.0	2.0	none
WIN0220-020-60-ZnSe	22.0	2.0	AR Ravg<1% 8~12μm
WIN0250-050-60-ZnSe	25.0	5.0	none
WIN0250-050-60-ZnSe	25.0	5.0	AR Ravg<1% 8~12μm
WIN0254-050-60-ZnSe	25.4	5.0	none
WIN0254-050-60-ZnSe	25.4	5.0	AR Ravg<1% 8~12μm
WIN0400-050-60-ZnSe	40.0	5.0	none
WIN0400-050-60-ZnSe	40.0	5.0	AR Ravg<1% 8~12μm
WIN0500-050-60-ZnSe	50.0	5.0	none
WIN0500-050-60-ZnSe	50.0	5.0	AR Ravg<1% 8~12μm



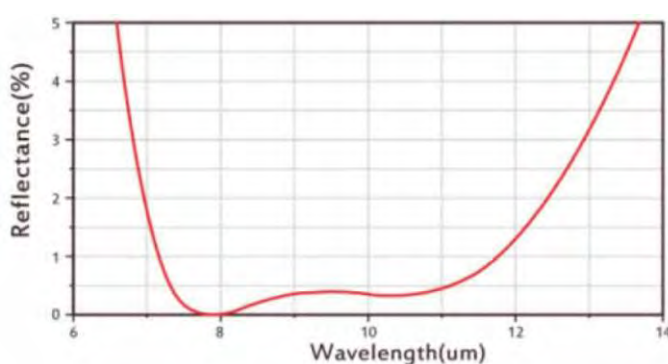
Unless otherwise specified, all dimensions are in mm

ZnS Windows

- **Material:** ZnS
- **Surface Figure:** 1 λ @633nm
- **Parallelism:** <1'
- **Surface Quality:** 60-40 Scratch and dig
- **Diameter Tolerance:** +0.0/-0.1mm
- **Thickness Tolerance:** $\pm$ 0.1mm
- **Chamfer:** Protective chamfer 0.2mmX45°
- **Coating:** see product list



ZnS Transmission



IR2 Coating @ 8~12μm

Part No	Diameter (mm)	Thickness(mm)
WIN0100-010-60-ZnS	10	1
WIN0100-020-60-ZnS	10	2
WIN0125-020-60-ZnS	12.5	2
WIN0127-010-60-ZnS	12.7	1
WIN0127-020-60-ZnS	12.7	2
WIN0130-020-60-ZnS	13	2
WIN0150-010-60-ZnS	15	1
WIN0150-020-60-ZnS	15	2
WIN0150-025-60-ZnS	15	2.5
WIN0160-020-60-ZnS	16	2
WIN0180-025-60-ZnS	18	2.5

Unless otherwise specified, all dimensions are in mm



ZnS Windows

Part No	Diameter (mm)	Thickness(mm)
WIN0200-010-60-ZnS	20	1
WIN0200-020-60-ZnS	20	2
WIN0200-027-60-ZnS	20	2.7
WIN0200-100-60-ZnS	20	10
WIN0250-005-60-ZnS	25	0.5
WIN0250-010-60-ZnS	25	1
WIN0250-015-60-ZnS	25	1.5
WIN0250-020-60-ZnS	25	2
WIN0250-025-60-ZnS	25	2.5
WIN0250-030-60-ZnS	25	3
WIN0254-030-60-ZnS	25.4	3
WIN0254-080-60-ZnS	25.4	8
WIN0260-025-60-ZnS	26	2.5
WIN0300-010-60-ZnS	30	1
WIN0300-020-60-ZnS	30	2
WIN0300-030-60-ZnS	30	3
WIN0300-100-60-ZnS	30	10
WIN0310-020-60-ZnS	31	2
WIN0350-040-60-ZnS	35	4
WIN0360-0120-60-ZnS	36	12
WIN0380-040-60-ZnS	38	4
WIN0400-020-60-ZnS	40	2
WIN0400-030-60-ZnS	40	3
WIN0400-050-60-ZnS	40	5

Unless otherwise specified, all dimensions are in mm



ZnS Windows

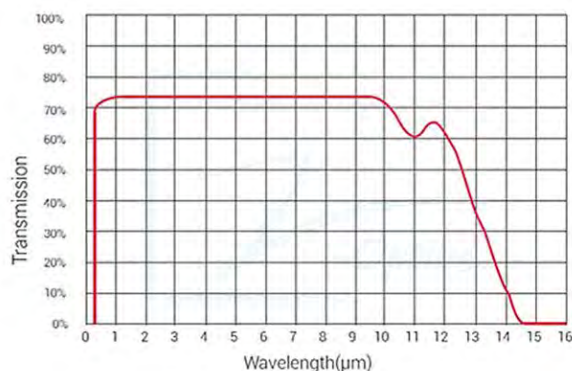
Part No	Diameter (mm)	Thickness(mm)
WIN0400-100-60-ZnS	40	10
WIN0430-030-60-ZnS	43	3
WIN0460-100-60-ZnS	46	10
WIN0500-005-60-ZnS	50	0.5
WIN0500-010-60-ZnS	50	1
WIN0500-020-60-ZnS	50	2
WIN0500-030-60-ZnS	50	3
WIN0500-040-60-ZnS	50	4
WIN0500-050-60-ZnS	50	5
WIN0600-030-60-ZnS	60	3
WIN0600-050-60-ZnS	60	5
WIN0700-030-60-ZnS	70	3
WIN0700-050-60-ZnS	70	5
WIN0700-060-60-ZnS	70	6
WIN0700-070-60-ZnS	70	7
WIN0700-080-60-ZnS	70	8
WIN0700-100-60-ZnS	70	10
WIN0800-030-60-ZnS	80	3
WIN0800-040-60-ZnS	80	4
WIN0800-080-60-ZnS	80	8
WIN01000-050-60-ZnS	100	5
WIN01000-080-60-ZnS	100	8

Unless otherwise specified, all dimensions are in mm

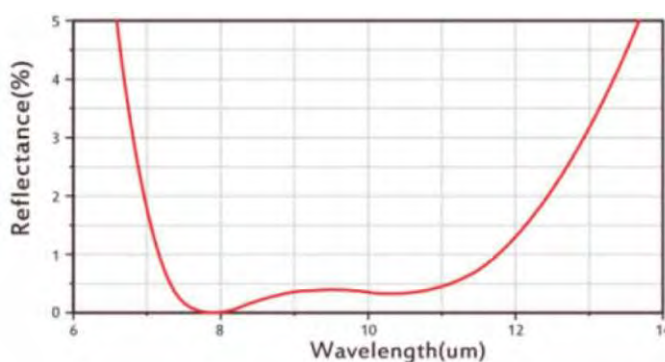


ZnS Windows (Square)

- **Material:** ZnS
- **Surface Figure:** $1\lambda@633\text{nm}$
- **Parallelism:** $<1'$
- **Surface Quality:** 60-40 Scratch and dig
- **Diameter Tolerance:** $+0.0/-0.1\text{mm}$
- **Thickness Tolerance:** $\pm 0.1\text{mm}$
- **Chamfer:** Protective chamfer $0.2\text{mm} \times 45^\circ$
- **Coating:** see product list



ZnS Transmission



IR2 Coating @ 8~12μm

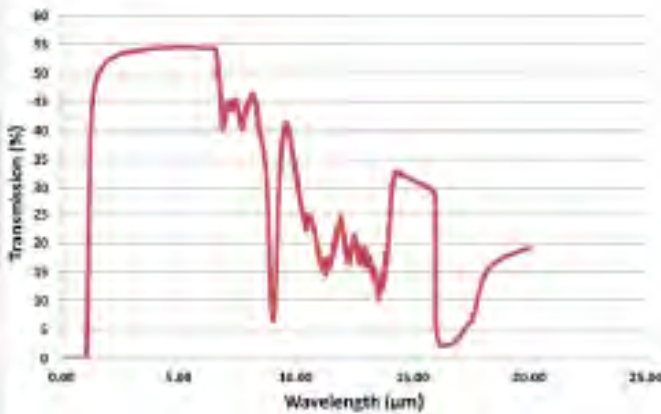
Part No	Size (mm)	Thickness(mm)
WIN1-100X100-05-ZnS	10x10	0.5
WIN1-100X100-10-ZnS	10x10	1
WIN1-120X120-05-ZnS	12x12	0.5
WIN1-100X120-10-ZnS	12x12	1
WIN1-200X200-10-ZnS	20x20	1
WIN1-500X500-15-ZnS	50x50	1.5
WIN1-750X500-20-ZnS	75x50	2
WIN1-100X100-10-ZnS	100x100	1
WIN6-230X500-60-ZnS	230x50	6

Unless otherwise specified, all dimensions are in mm

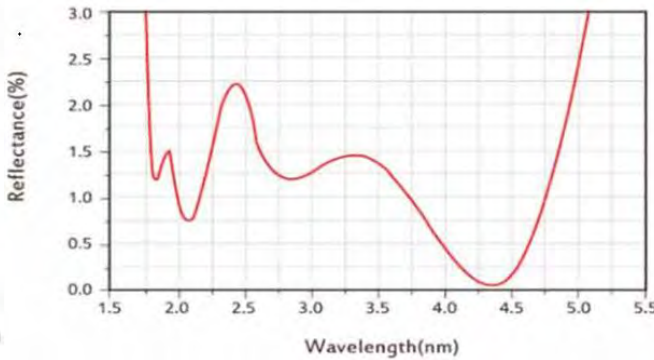


Silicon Windows

- **Material:** Silicon
- **Surface Figure:** 1 λ @633nm
- **Parallelism:** <1'
- **Surface Quality:** 60-40 scratch and dig
- **Diameter Tolerance:** +0.0/-0.1mm
- **Thickness Tolerance:** ± 0.1 mm
- **Chamfer:** Protective chamfer 0.2mmX45°



Si Transmission



IR Coating @3~5 μ m

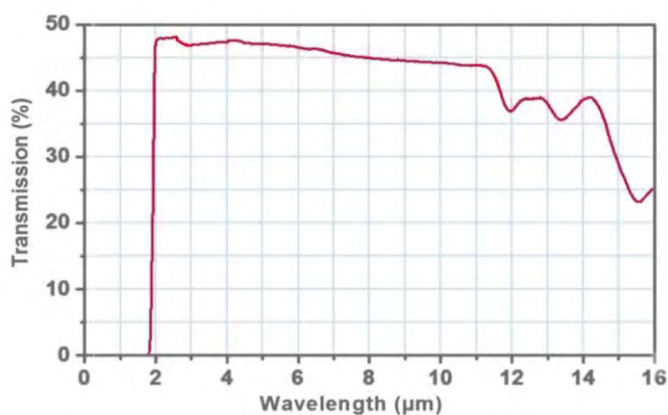
Part no	Diameter (mm)	Thickness (mm)	Coating
WIN0030-005-60-SI	3	0.5	Double-sided anti-reflection Ravq<2% @3~5 μ m
WIN0050-005-60-SI	5	0.5	Double-sided anti-reflection Ravq<2% @3~5 μ m
WIN0063-005-60-SI	6.3	0.5	Double-sided anti-reflection Ravq<2% @3~5 μ m
WIN0080-010-60-SI	8	1	Double-sided anti-reflection Ravq<2% @3~5 μ m
WIN0100-010-60-SI	10	1	Double-sided anti-reflection Ravq<2% @3~5 μ m
WIN0125-010-60-SI	12.5	1	Double-sided anti-reflection Ravq<2% @3~5 μ m
WIN0200-010-60-SI	20	1	Double-sided anti-reflection Ravq<2% @3~5 μ m
WIN0250-010-60-SI	25	1	Double-sided anti-reflection Ravq<2% @3~5 μ m

Unless otherwise specified, all dimensions are in mm

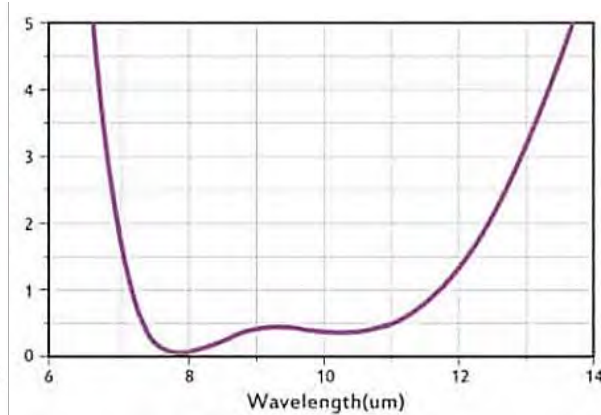


Germanium Windows

- **Material:** Germanium
- **Surface Figure:** $1\lambda@633\text{nm}$
- **Parallelism:** $<1'$
- **Surface Quality:** 60-40 scratch and dig
- **Diameter Tolerance:** $+0.0/-0.1\text{mm}$
- **Thickness Tolerance:** $\pm 0.1\text{mm}$
- **Chamfer:** Protective chamfer $0.2\text{mm}\times 45^\circ$
- **Coating:** See product list



Ge Transmission



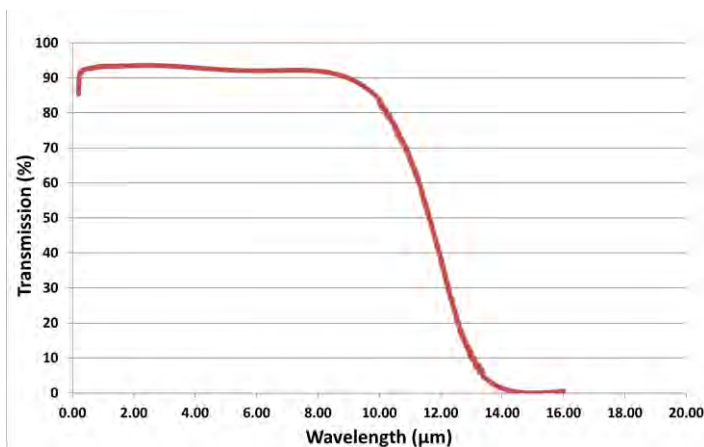
IR2 Coating @ 8~12μm

Part No.	Diameter (mm)	Thickness (mm)	Coating
WIN0100-010-60-GE	10	1	Ravg<2%@8~12μm
WIN0125-020-60-GE	12.5	2	Ravg<2%@8~12μm
WIN0127-020-60-GE	12.7	2	Ravg<2%@8~12μm
WIN0250-020-60-GE	25	2	Ravg<2%@8~12μm
WIN0254-020-60-GE	25.4	2	Ravg<2%@8~12μm
WIN0400-020-60-GE	40	2	Ravg<2%@8~12μm
WIN0500-030-60-GE	50	3	Ravg<2%@8~12μm



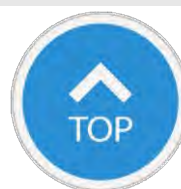
CaF2 Windows

- **Material:** CaF2
- **Surface Figure:** $\lambda/8@633\text{nm}$
- **Parallelism:** $<10''$
- **Surface Quality:** 60-40 scratch and dig
- **Diameter Tolerance:** $+0.0/-0.2\text{mm}$
- **Thickness Tolerance:** $\pm 0.3\text{mm}$
- **Chamfer:** Protective chamfer $0.2\text{ mm} \times 45^\circ$
- **Coating:** None



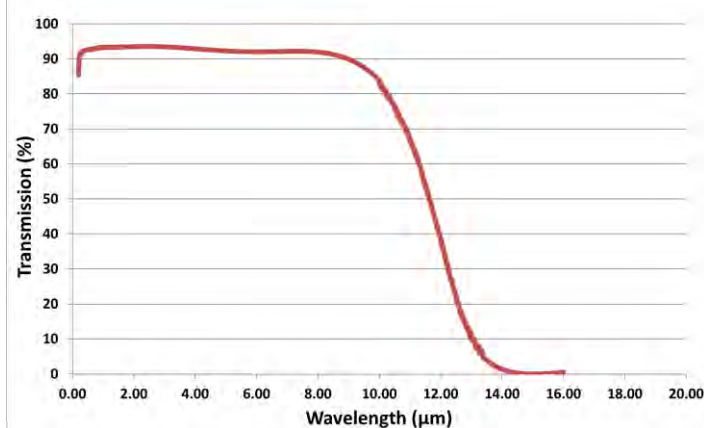
CaF2 Transmission

Part no	Diameter (mm)	Thickness (mm)
WIN0125-030-10-CF	12.5	3
WIN0127-030-10-CF	12.7	3
WIN0250-050-10-CF	25	5
WIN0254-050-10-CF	25.4	5
WIN0400-050-10-CF	40	5
WIN0500-080-10-CF	50	8



BaF2 Windows

- **Material:** BaF2
- **Surface Figure:** $\lambda/2@633\text{nm}$
- **Parallelism:** $<1'$
- **Surface Quality:** 60-40 scratch and dig
- **Diameter Tolerance:** $+0.0/-0.1\text{mm}$
- **Thickness Tolerance:** $\pm 0.1\text{ mm}$
- **Chamfer:** Protective chamfer $0.2\text{ mm} \times 45^\circ$
- **Coating:** None



BaF2 Transmission

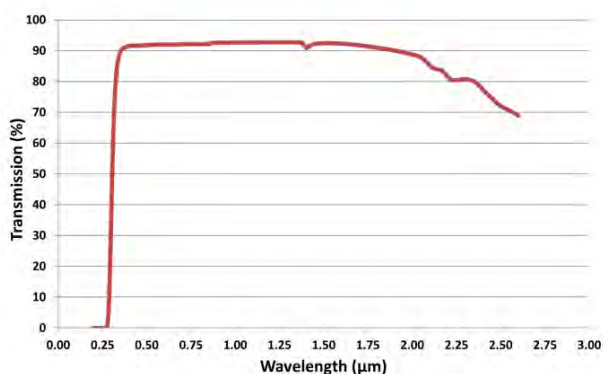
Part No.	Diameter (mm)	Thickness (mm)
WIN0125-020-60-BF	12.5	2
WIN0127-020-60-BF	12.7	2
WIN0250-030-60-BF	25	3
WIN0254-030-60-BF	25.4	3
WIN0400-030-60-BF	40	3
WIN0500-030-60-BF	50	3



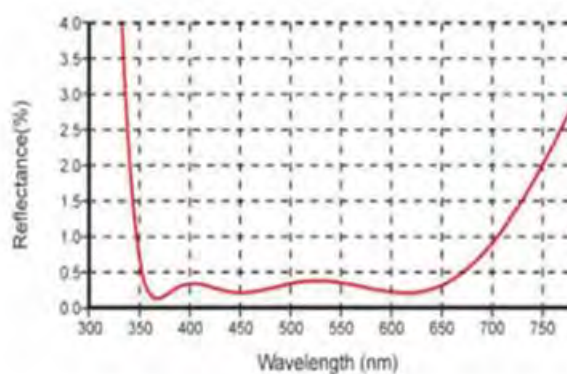
K9 Wedge Windows

The high-precision Wedge Windows can avoid the etalon effect caused by the light reflected on the front and rear surfaces of the high-parallel Windows, and at the same time, it can also avoid interference with reflected beam, which causes power frustration and modes jumping.

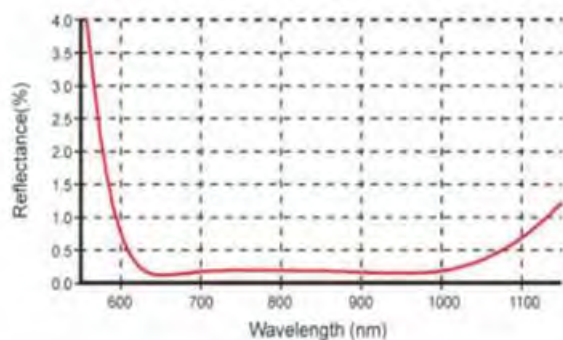
- **Material:** H-K9L
- **Surface Figure:** $\lambda/10@633\text{nm}$
- **Wedge Angle:** $30' \pm 10'$
- **Surface Quality:** 40-20 Scratch and Dig
- **Diameter Tolerance:** $+0.0/-0.1\text{ mm}$
- **Thickness Tolerance:** $\pm 0.2\text{mm}$
- **Chamfer:** Protective chamfer $0.2\sim 0.5\text{mm} \times 45^\circ$
- **Coating:** see product list



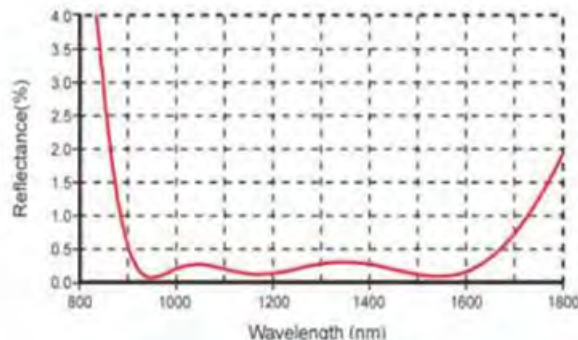
H-K9L Transmittance



VIS coating@350~700nm



NIR coating@600~1100nm



SWIR coating@900~1700nm



K9 Wedge Windows

The high-precision Wedge Windows can avoid the etalon effect caused by the light reflected on the front and rear surfaces of the high-parallel Windows, and at the same time, it can also avoid interference with reflected beam, which causes power frustration and modes jumping.

- **Material:** H-K9L
- **Surface Figure:** $\lambda/10@633\text{nm}$
- **Wedge Angle:** $30' \pm 10'$
- **Surface Quality:** 40-20 Scratch and Dig
- **Diameter Tolerance:** $+0.0/-0.1\text{ mm}$
- **Thickness Tolerance:** $\pm 0.2\text{mm}$
- **Chamfer:** Protective chamfer $0.2\sim 0.5\text{mm} \times 45^\circ$
- **Coating:** see product list



Diameter (mm)	Thickness (mm)	No Coating	AR@350~700nm	AR@600~1100nm	AR@900~1700nm
		Part No	Part No	Part No	Part No
12.5	3	WIN0125-030	WIN0125-030-VIS	WIN0125-030-NIR	WIN0125-030-SWIR
12.7	3	WIN0127-030	WIN0127-030-VIS	WIN0127-030-NIR	WIN0127-030-SWIR
25	6	WIN0250-060	WIN0250-060-VIS	WIN0250-060-NIR	WIN0250-060-SWIR
25.4	6	WIN0254-060	WIN0254-060-VIS	WIN0254-060-NIR	WIN0254-060-SWIR
38.1	10	WIN0381-100	WIN0381-100-VIS	WIN0381-100-NIR	WIN0381-100-SWIR
50	10	WIN0500-100	WIN0500-100-VIS	WIN0500-100-NIR	WIN0500-100-SWIR
50.8	10	WIN0508-100	WIN0508-100-VIS	WIN0508-100-NIR	WIN0508-100-SWIR

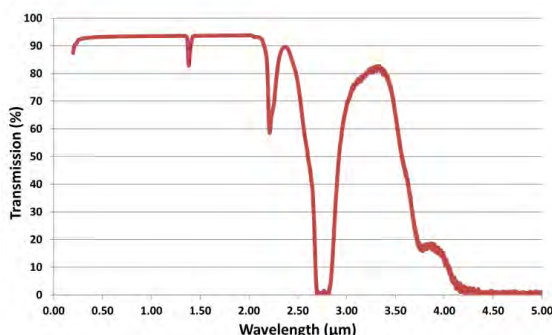
Unless otherwise specified, all dimensions are in mm



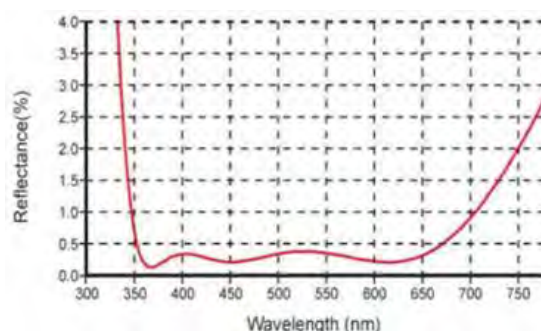
Fused Silica Wedge Windows

The high-precision Wedge Windows can avoid the etalon effect caused by the light reflected on the front and rear surfaces of the high-parallel Windows, and at the same time, it can also avoid interference with reflected beam, which causes power frustration and modes jumping.

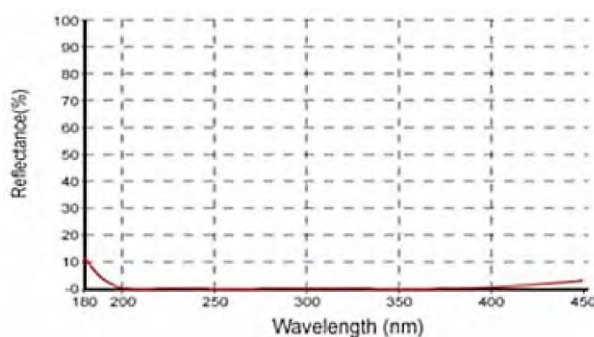
- **Material:** Fused Silica
- **Surface Figure:** $\lambda/10@633\text{nm}$
- **Wedge Angle:** $30' \pm 10'$
- **Surface Quality:** 40-20 Scratch and Dig
- **Diameter Tolerance:** $+0.0/-0.1\text{mm}$
- **Thickness Tolerance:** $\pm 0.2\text{mm}$
- **Chamfer:** Protective chamfer $0.2 \sim 0.5\text{mm} \times 45^\circ$
- **Coating:** see product list



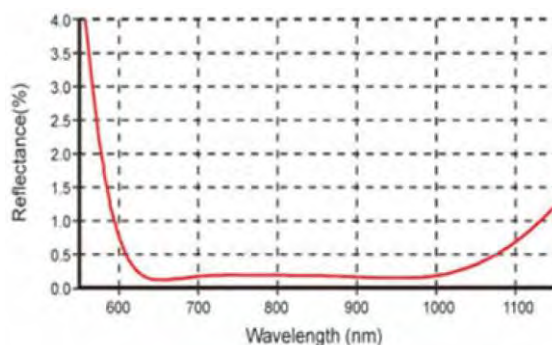
UV Fused Silica Transmission @10mm thickness



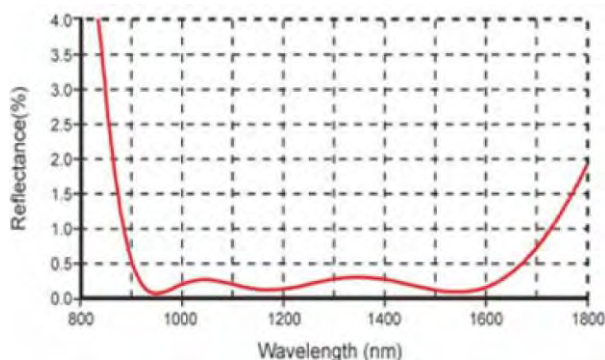
VIS coating @350~700nm



UV coating @250~400nm



NIR coating @600~1100nm



SWIR Coating @900~1700nm



Fused Silica Wedge Windows

The high-precision Wedge Windows can avoid the etalon effect caused by the light reflected on the front and rear surfaces of the high-parallel Windows, and at the same time, it can also avoid interference with reflected beam, which causes power frustration and modes jumping.

- **Material:** Fused Silica
- **Surface Figure:** $\lambda/10@633\text{nm}$
- **Wedge Angle:** $30' \pm 10'$
- **Surface Quality:** 40-20 Scratch and Dig
- **Diameter Tolerance:** $+0.0/-0.1\text{mm}$
- **Thickness Tolerance:** $\pm 0.2\text{mm}$
- **Chamfer:** Protective chamfer $0.2\sim 0.5\text{mm} \times 45^\circ$
- **Coating:** see product list



Diameter (mm)	Thickness (mm)	No Coating	AR@250~425nm	AR@350~700nm	AR@600~1100nm	AR@900~1700nm
		Part No	Part No	Part No	Part No	Part No
12.5	3	WIN0125-030	WIN0125-030-FS-UV	WIN0125-030-FS-VIS	WIN0125-030-FS-NIR	WIN0125-030-FS-SWIR
12.7	3	WIN0127-030	WIN0127-030-FS-UV	WIN0127-030-FS-VIS	WIN0127-030-FS-NIR	WIN0127-030-FS-SWIR
25	6	WIN0250-060	WIN0250-060-FS-UV	WIN0250-060-FS-VIS	WIN0250-060-FS-NIR	WIN0250-060-FS-SWIR
25.4	6	WIN0254-060	WIN0254-060-FS-UV	WIN0254-060-FS-VIS	WIN0254-060-FS-NIR	WIN0254-060-FS-SWIR
38.1	10	WIN0381-100	WIN0381-100-FS-UV	WIN0381-100-FS-VIS	WIN0381-100-FS-NIR	WIN0381-100-FS-SWIR
50	10	WIN0500-100	WIN0500-100-FS-UV	WIN0500-100-FS-VIS	WIN0500-100-FS-NIR	WIN0500-100-FS-SWIR
50.8	10	WIN0508-100	WIN0508-100-FS-UV	WIN0508-100-FS-VIS	WIN0508-100-FS-NIR	WIN0508-100-FS-SWIR

Unless otherwise specified, all dimensions are in mm



Brewster Windows

- **Material:** UV Fused Silica
- **Surface Figure:** $<\lambda/10@633\text{nm}$
- **Parallelism:** $<5''$
- **Surface Quality:** 40-20 Scratch and Dig
- **Diameter Tolerance:** $+0.0/-0.1\text{mm}$
- **Thickness Tolerance:** $\pm 0.2\text{mm}$
- **Chamfer:** Protective chamfer $0.2\sim 0.5\text{mm}\times 45^\circ$
- **Brewster Angle:** $55^\circ 34'@633\text{nm}$

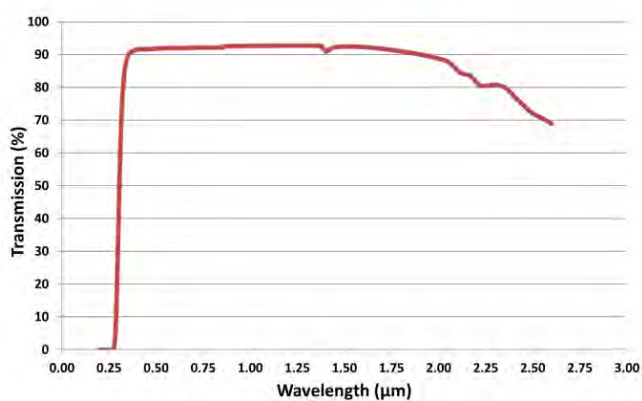
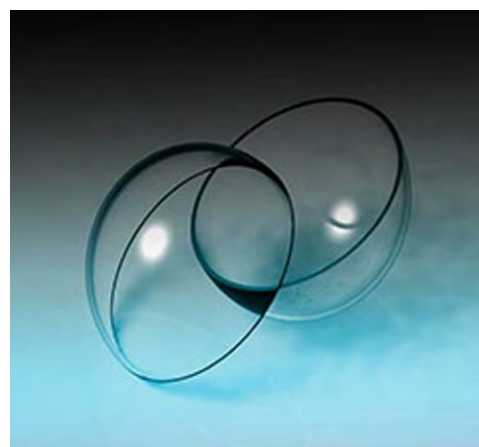


Part no	Long Axis (mm)	Short Axis (mm)	Thickness (mm)	Coating
WIN3177-100-20	17.69	10	2	none
WIN3221-125-20	22.11	12.5	2	none
WIN3282-160-20	28.23	16	2	none
WIN3354-200-20	35.37	20	2	none
WIN3442-250-20	44.21	25	2	none



K9 Dome Cover

- **Material:** H-K9L
- **Surface Figure:** $\Delta N < 10$ @633nm
- **Surface Quality:** 80-50 Scratch and dig
- **Diameter Tolerance:** +0.0/-0.2mm
- **Thickness Tolerance:** ± 0.2 mm
- **Chamfer:** Protective chamfer 0.2~0.5mmX45°
- **Coating:** none



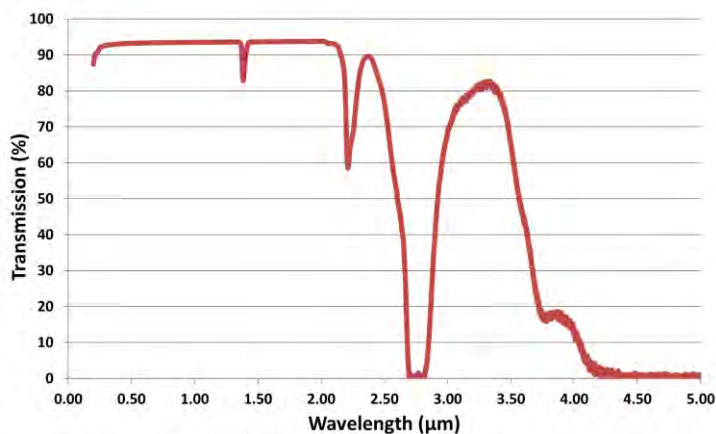
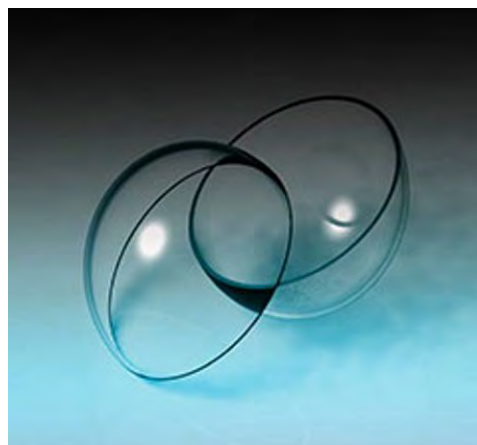
K9 transmittance

Part No.	Diameter (mm)	Height (mm)	Thickness (mm)
DOM025-115-10	25	11.5	1
DOM050-240-20	50	24	2
DOM075-365-30	75	36.5	3
DOM100-490-40	100	49	4



Fused Silica Dome Cover

- **Material:** Fused Silica
- **Surface Figure:** $\Delta N < 10$ @633nm
- **Surface Quality:** 80-50 Scratch and dig
- **Diameter Tolerance:** $+0.0/-0.2$ mm
- **Thickness Tolerance:** ± 0.2 mm
- **Chamfer:** Protective chamfer $0.2 \sim 0.5$ mmX45°
- **Coating:** none



Fused Silica transmission

Part No.	Diameter (mm)	Height (mm)	Thickness (mm)
DOM025-115-10-FS	25	11.5	1
DOM050-240-20-FS	50	24	2
DOM075-365-30-FS	75	36.5	3
DOM100-490-40-FS	100	49	4

