

# WINDOWS CATALOG

Ver.231201

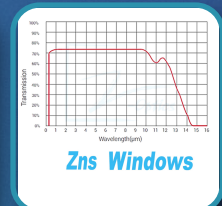
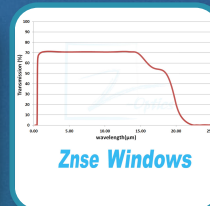
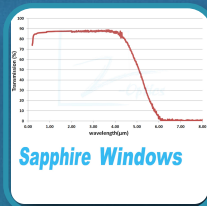
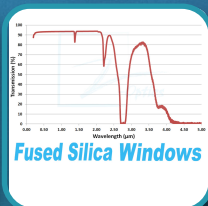
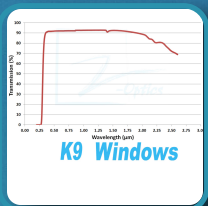


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# 10 DAYS LENS SAMPLING



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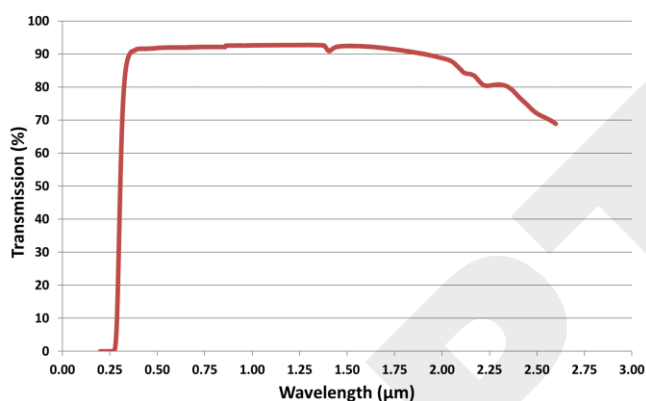
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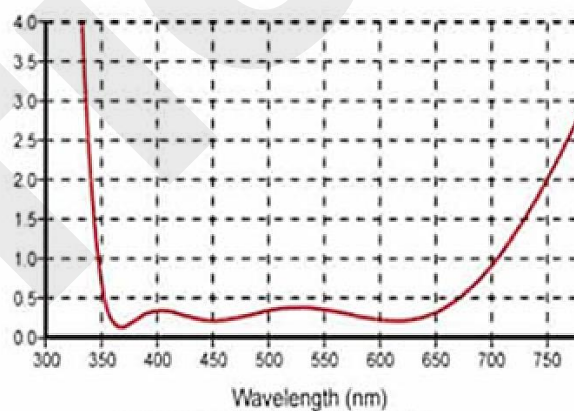
sales@z-optics.com

# K9 Windows Standard Precision

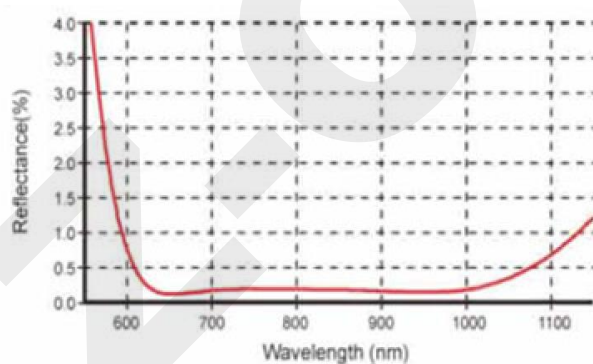
- **Material:** CDGM H-K9L
- **Surface Figure:**  $\lambda/4@633\text{nm}$
- **Parallelism:**  $<30''$
- **Surface Quality:** 60-40 scratch and dig
- **Diameter Tolerance:**  $+0.0/-0.1\text{mm}$
- **Thickness Tolerance:**  $\pm 0.2\text{mm}$
- **Chamfer:**  $0.2\sim 0.5\text{mm}\times 45^\circ$



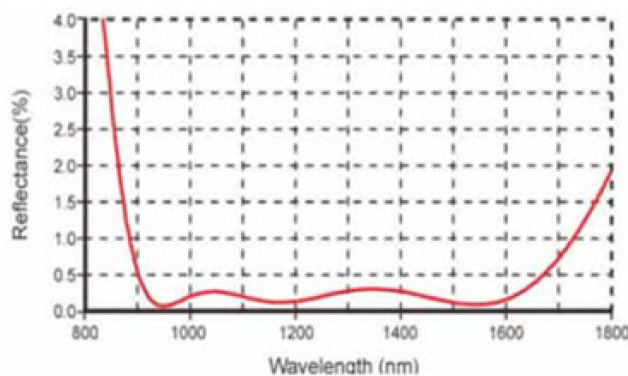
H-K9L Transmittance @10mm thickness



VIS coating@350~700nm



NIR coating @600~1100nm



SWIR Coating@900~1700nm



# K9 Windows Standard Precision

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

Diameter (mm)	Thickness (mm)	No Coating	AR@350~700nm	AR@600~1100nm	AR@900~1700nm
		Part No	Part No	Part No	Part No
$\phi 5.0$	2	WIN0050-020-30	WIN0050-020-30-VIS	WIN0050-020-30-NIR	WIN0050-020-30-SWIR
$\phi 10.0$	2	WIN0100-020-30	WIN0100-020-30-VIS	WIN0100-020-30-NIR	WIN0100-020-30-SWIR
$\phi 12.5$	2	WIN0125-020-30	WIN0125-020-30-VIS	WIN0125-020-30-NIR	WIN0125-020-30-SWIR
$\phi 12.7$	2	WIN0127-020-30	WIN0127-020-30-VIS	WIN0127-020-30-NIR	WIN0127-020-30-SWIR
$\phi 20.0$	2	WIN0200-020-30	WIN0200-020-30-VIS	WIN0200-020-30-NIR	WIN0200-020-30-SWIR
$\phi 25.0$	4	WIN0250-040-30	WIN0250-040-30-VIS	WIN0250-040-30-NIR	WIN0250-040-30-SWIR
$\phi 25.4$	4	WIN0254-040-30	WIN0254-040-30-VIS	WIN0254-040-30-NIR	WIN0254-040-30-SWIR
$\phi 30.0$	4	WIN0300-040-30	WIN0300-040-30-VIS	WIN0300-040-30-NIR	WIN0300-040-30-SWIR
$\phi 38.1$	4	WIN0381-040-30	WIN0381-040-30-VIS	WIN0381-040-30-NIR	WIN0381-040-30-SWIR
$\phi 50.0$	4	WIN0500-040-30	WIN0500-040-30-VIS	WIN0500-040-30-NIR	WIN0500-040-30-SWIR
$\phi 50.8$	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  $0.2\sim 0.5\text{mm} \times 45^\circ$

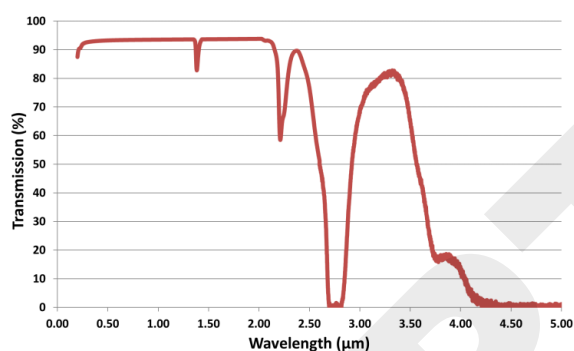
Diameter (mm)	Thickness (mm)	No Coating	AR@350~700nm	AR@600~1100nm	AR@900~1700nm
		Part No	Part No	Part No	Part No
$\phi 5.0$	2	WIN0050-020-05	WIN0050-020-05-VIS	WIN0050-020-05-NIR	WIN0050-020-05-SWIR
$\phi 10.0$	2	WIN0100-020-05	WIN0100-020-05-VIS	WIN0100-020-05-NIR	WIN0100-020-05-SWIR
$\phi 12.5$	3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

Unless otherwise specified, all dimensions are in mm

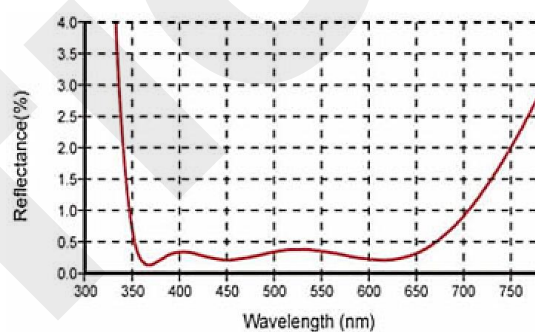


# Fused Silica Windows standard precision

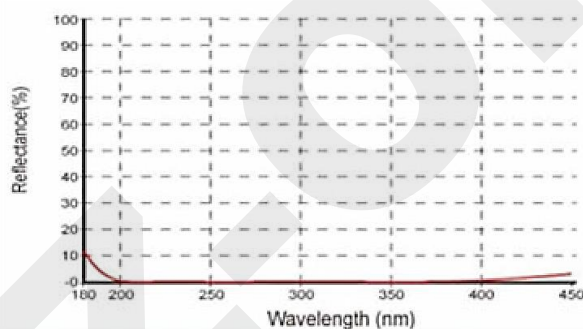
- **Material:** Fused Silica
- **Surface Figure:**  $\lambda/4@633\text{nm}$
- **Parallelism:**  $<30''$
- **Surface Quality:** 60-40 scratch and dig
- **Diameter Tolerance:**  $+0.0/-0.1\text{ mm}$
- **Thickness Tolerance:**  $\pm 0.2\text{mm}$
- **Chamfer:** Protective chamfer  $0.2\sim 0.5\text{mm}\times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



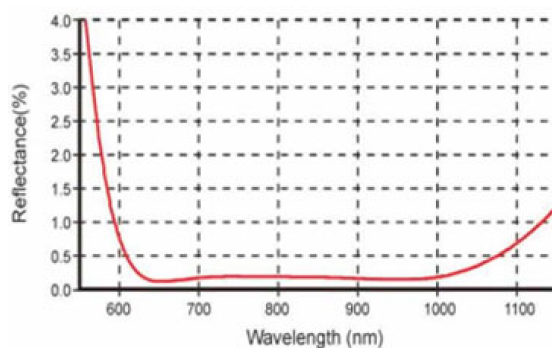
UV fused silica transmittance @10mm thickness



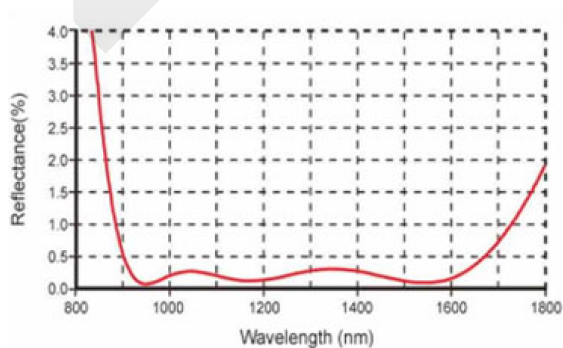
VIS coating @350~700nm



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  $0.2\sim 0.5\text{mm}\times 45^\circ$

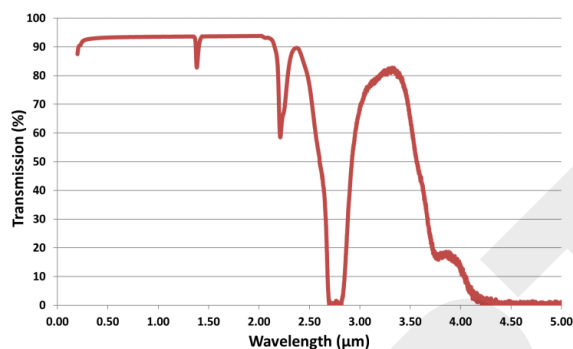
Diameter (mm)	Thickness (mm)	No Coating	AR@250~425nm	AR@350~700nm	AR@600~1100nm	AR@900~1700nm
		Part No	Part No	Part No	Part No	Part No
$\phi 5.0$	2	WIN0050-020-30-FS	WIN0050-020-30-FS-UV	WIN0050-020-30-FS-VIS	WIN0050-020-30-FS-NIR	WIN0050-020-30-FS-SWIR
$\phi 10.0$	2	WIN0100-020-30-FS	WIN0100-020-30-FS-UV	WIN0100-020-30-FS-VIS	WIN0100-020-30-FS-NIR	WIN0100-020-30-FS-SWIR
$\phi 12.5$	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
$\phi 12.7$	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
$\phi 20.0$	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
$\phi 25.0$	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
$\phi 25.4$	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
$\phi 30.0$	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
$\phi 38.1$	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
$\phi 50.0$	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
$\phi 50.8$	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

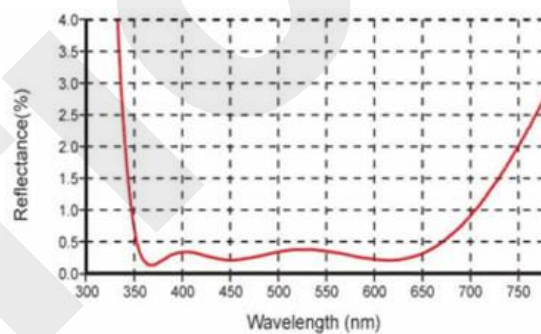


# Fused Silica Windows high precision

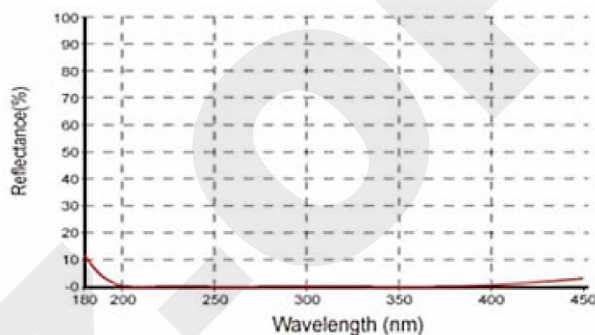
- **Material:** Fused Silica
- **Surface Figure:**  $\lambda/10@633\text{nm}$
- **Parallelism:**  $<5''$
- **Surface Quality:** 40-20 Scratch and Dig
- **Diameter Tolerance:**  $+0.0/-0.1\text{mm}$
- **Thickness Tolerance:**  $\pm 0.2\text{mm}$
- **Chamfer:** Protective chamfer  $0.2\sim 0.5\text{mm}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



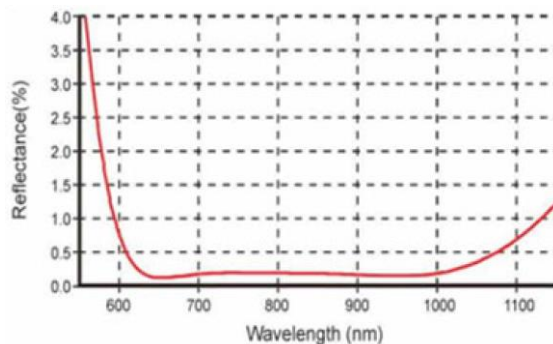
UV Fused Silica Transmission @10mm thickness



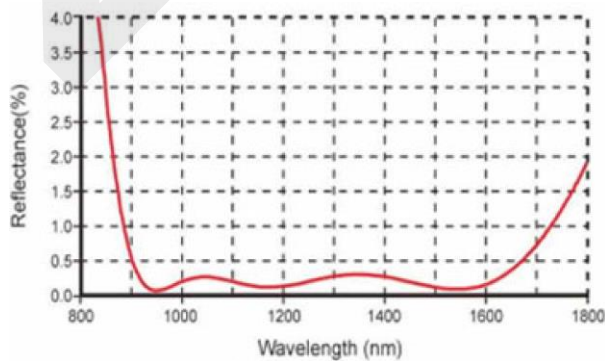
VIS coating @350~700nm



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

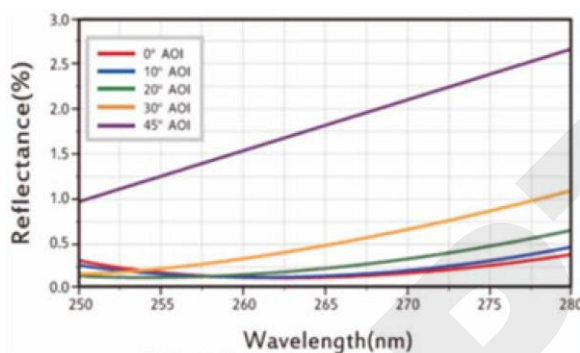
Diameter (mm)	Thickness (mm)	No Coating	AR@250~425nm	AR@350~700nm	AR@600~1100nm	AR@900~1700nm
		Part No	Part No	Part No	Part No	Part No
$\phi 5.0$	2	WIN0050-020-05-FS	WIN0050-020-05-FS-UV	WIN0050-020-05-FS-VIS	WIN0050-020-05-FS-NIR	WIN0050-020-05-FS-SWIR
$\phi 10.0$	2	WIN0100-020-05-FS	WIN0100-020-05-FS-UV	WIN0100-020-05-FS-VIS	WIN0100-020-05-FS-NIR	WIN0100-020-05-FS-SWIR
$\phi 12.5$	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
$\phi 12.7$	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
$\phi 20.0$	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
$\phi 25.0$	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
$\phi 25.4$	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
$\phi 30.0$	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
$\phi 38.1$	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
$\phi 50.0$	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
$\phi 50.8$	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



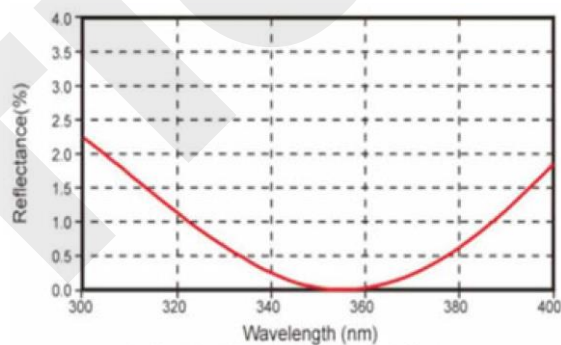


# Fused Silica Windows Laser Line

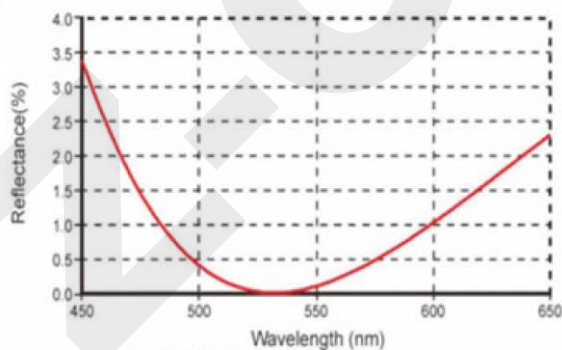
- **Material:** Fused Silica
- **Surface Figure:**  $\lambda/10$  @633nm
- **Parallelism:**  $<5''$
- **Surface Quality:** 40-20 Scratch and dig
- **Diameter Tolerance:** + 0.0/-0.1 mm
- **Thickness Tolerance:**  $\pm 0.2$ mm
- **Chamfer:** Protective chamfer 0.2~0.5mmX45°



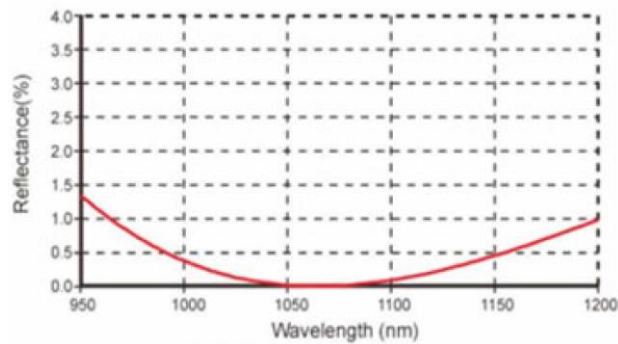
V coating R<0.25%266nm



V coating R<0.25%355nm



V coating R<0.25%532nm



V coating R<0.25%1064nm



# Fused Silica Windows Laser Line

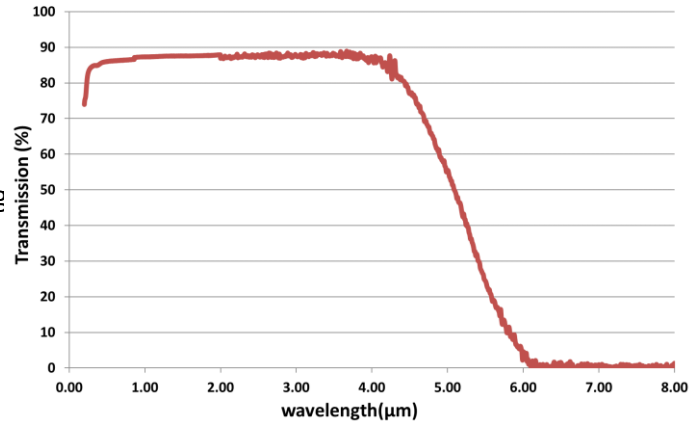
- **Material:** Fused Silica
- **Surface Figure:**  $\lambda/10$  @633nm
- **Parallelism:** <5"
- **Surface Quality:** 40-20 Scratch and dig
- **Diameter Tolerance:** + 0.0/-0.1 mm
- **Thickness Tolerance:**  $\pm 0.2$ mm
- **Chamfer:** Protective chamfer 0.2~0.5mmX45°

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
φ5.0	2	WIN0050-020-05-FS-V266	WIN0050-020-05-FS-V355	WIN0050-020-05-FS-V532	WIN0050-020-05-FS-V1064
φ10.0	2	WIN0100-020-05-FS-V266	WIN0100-020-05-FS-V355	WIN0100-020-05-FS-V532	WIN0100-020-05-FS-V1064
φ12.5	3	WIN0125-030-05-FS-V266	WIN0125-030-05-FS-V355	WIN0125-030-05-FS-V532	WIN0125-030-05-FS-V1064
φ12.7	3	WIN0127-030-05-FS-V266	WIN0127-030-05-FS-V355	WIN0127-030-05-FS-V532	WIN0127-030-05-FS-V1064
φ20.0	6	WIN0200-060-05-FS-V266	WIN0200-060-05-FS-V355	WIN0200-060-05-FS-V532	WIN0200-060-05-FS-V1064
φ25.0	6	WIN0250-060-05-FS-V266	WIN0250-060-05-FS-V355	WIN0250-060-05-FS-V532	WIN0250-060-05-FS-V1064
φ25.4	10	WIN0254-010-05-FS-V266	WIN0254-010-05-FS-V355	WIN0254-010-05-FS-V532	WIN0254-010-05-FS-V1064
φ30.0	10	WIN0300-010-05-FS-V266	WIN0300-010-05-FS-V355	WIN0300-010-05-FS-V532	WIN0300-010-05-FS-V1064
φ38.1	10	WIN0381-010-05-FS-V266	WIN0381-010-05-FS-V355	WIN0381-010-05-FS-V532	WIN0381-010-05-FS-V1064
φ50.0	10	WIN0500-010-05-FS-V266	WIN0500-010-05-FS-V355	WIN0500-010-05-FS-V532	WIN0500-010-05-FS-V1064
φ50.8	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:**  $1 \sim 2 \lambda @ 633\text{nm}$
- **parallelism:**  $< 3'$
- **Surface Quality:** 80-50 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

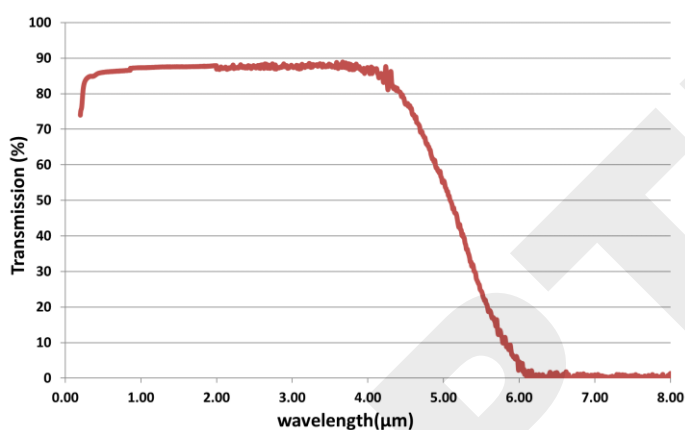
Part no	Diameter (mm)	Thickness (mm)
WIN0030-005-180-SP	3	0.5
WIN0050-005-180-SP	5	0.5
WIN0063-005-180-SP	6.3	0.5
WIN0080-010-180-SP	8	1
WIN0100-010-180-SP	10	1
WIN0125-010-180-SP	12.5	1
WIN0200-010-180-SP	20	1
WIN0250-010-180-SP	25	1
WIN0250-045-180-SP	25	4.5
WIN0320-090-180-SP	32	9
WIN0380-010-180-SP	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
WIN0500-005-180-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

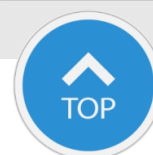
- **Material:** Sapphire
- **Surface Figure:**  $\lambda/4@633\text{nm}$
- **parallelism:**  $< 30''$
- **Surface Quality:** 40-20 Scratch and dig
- **Diameter Tolerance:**  $+0.0/-0.1\text{mm}$
- **Thickness Tolerance:**  $\pm 0.1\text{mm}$
- **Chamfer:** Protective chamfer  $0.2\sim 0.5\text{mm} \times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



Sapphire Windows transmission

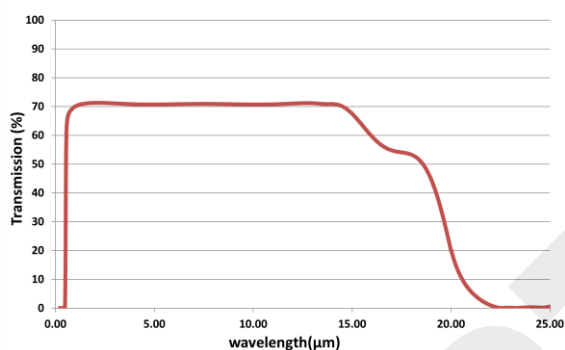
Part no	Diameter (mm)	Thickness (mm)
WIN0030-010-30-SP	3	1
WIN0050-010-30-SP	5	1
WIN0063-010-30-SP	6.3	1
WIN0080-010-30-SP	8	1
WIN0100-010-30-SP	10	1
WIN0125-010-30-SP	12.5	1
WIN0125-020-30-SP	12.5	2
WIN0200-010-30-SP	20	1
WIN0200-020-30-SP	20	2
WIN0250-010-30-SP	25	1
WIN0250-020-30-SP	25	2

Unless otherwise specified, all dimensions are in mm

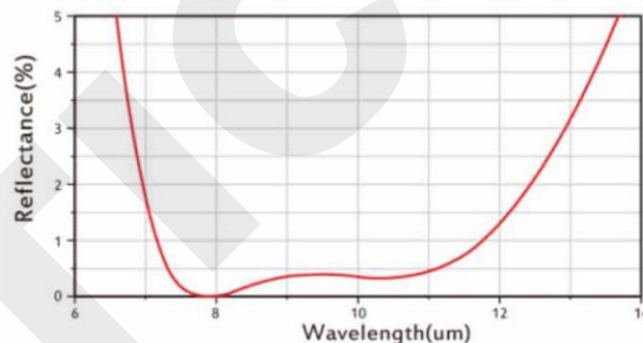


# ZnSe Windows

- **Material:** ZnSe
- **Surface Figure:**  $1 \lambda @ 633\text{nm}$
- **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



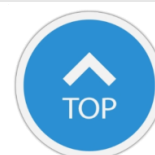
ZnSe Transmission



IR2 Coating @ 8~12μm

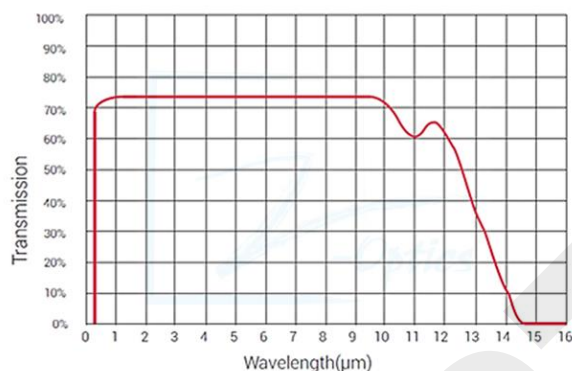
Part No	Diameter (mm)	Thickness(mm)	Coating
WIN0125-030-60-ZnSe	12.5	3.0	none
WIN0125-030-60-ZnSe	12.5	3.0	AR Ravg<1% 8~12μm
WIN0127-030-60-ZnSe	12.7	3.0	none
WIN0127-030-60-ZnSe	12.7	3.0	AR Ravg<1% 8~12μm
WIN0250-050-60-ZnSe	25.0	5.0	none
WIN0250-050-60-ZnSe	25.0	5.0	AR Ravg<1% 8~12μm
WIN0254-050-60-ZnSe	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

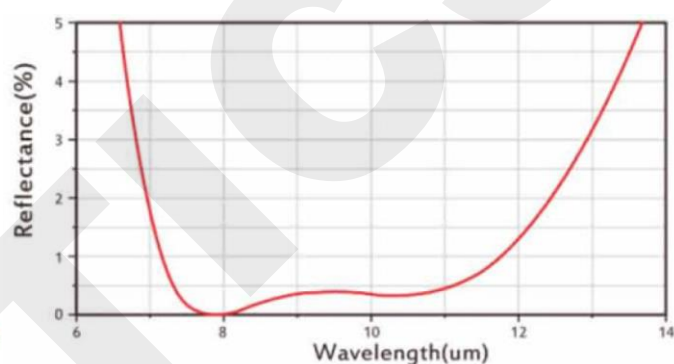


# ZnS Windows

- **Material:** ZnS
- **Surface Figure:**  $1 \lambda @ 633\text{nm}$
- **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



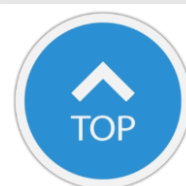
ZnS Transmission



IR2 Coating @ 8~12μm

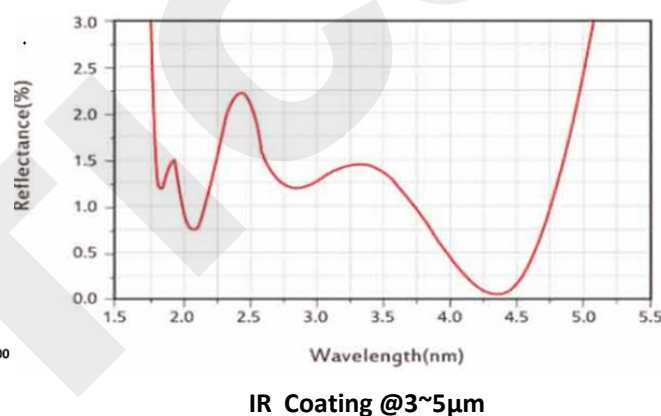
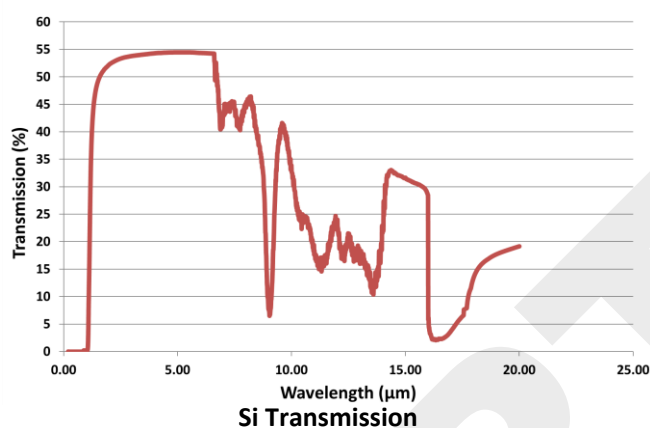
Part No	Diameter (mm)	Thickness(mm)	Coating
WIN0125-020-60-ZnS	12.5	2.0	none
WIN0125-020-60-ZnS	12.5	2.0	AR Ravg<1% 8~12μm
WIN0127-020-60-ZnS	12.7	2.0	none
WIN0127-020-60-ZnS	12.7	2.0	AR Ravg<1% 8~12μm
WIN0250-030-60-ZnS	25.0	3.0	none
WIN0250-030-60-ZnS	25.0	3.0	AR Ravg<1% 8~12μm
WIN0254-030-60-ZnS	25.4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

Unless otherwise specified, all dimensions are in mm



# Silicon Windows

- **Material:** Silicon
- **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  $0.2\text{mm} \times 45^\circ$



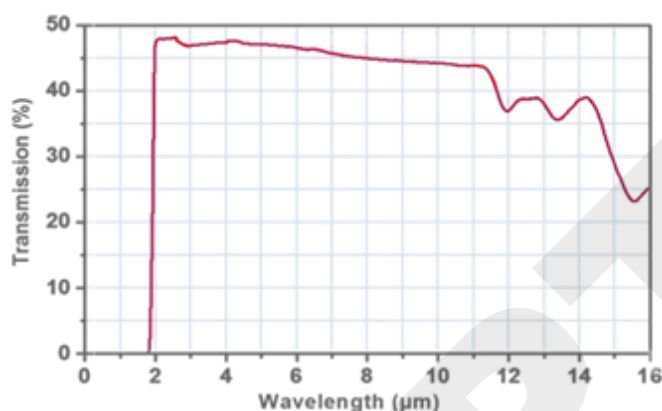
Part no	Diameter (mm)	Thickness (mm)	Coating
WIN0030-005-60-SI	3	0.5	Double-sided anti-reflection Ravq<2% @ $3 \sim 5 \mu\text{m}$
WIN0050-005-60-SI	5	0.5	Double-sided anti-reflection Ravq<2% @ $3 \sim 5 \mu\text{m}$
WIN0063-005-60-SI	6.3	0.5	Double-sided anti-reflection Ravq<2% @ $3 \sim 5 \mu\text{m}$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

Unless otherwise specified, all dimensions are in mm

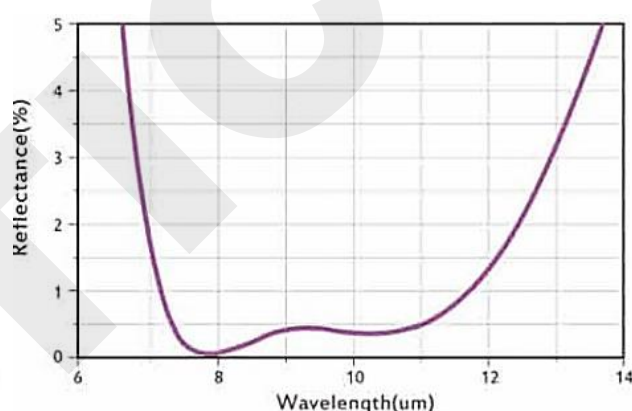


# Germanium Windows

- **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

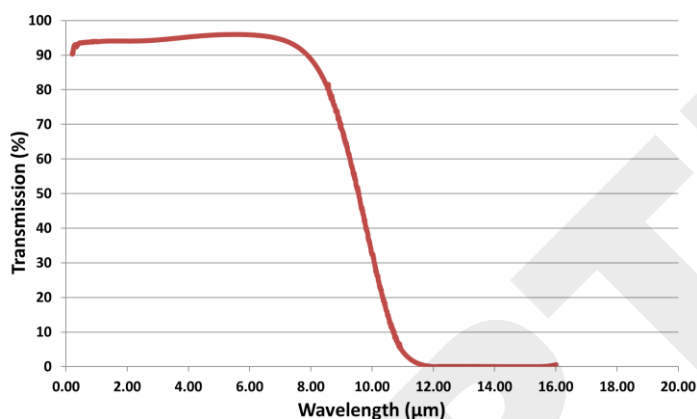
Part No.	Diameter (mm)	Thickness (mm)	Coating
WIN0100-010-60-GE	10	1	Ravg<2%@8~12μm
WIN0125-020-60-GE	12.5	2	Ravg<2%@8~12μm
WIN0127-020-60-GE	12.7	2	Ravg<2%@8~12μm
WIN0250-020-60-GE	25	2	Ravg<2%@8~12μm
WIN0254-020-60-GE	25.4	2	Ravg<2%@8~12μm
WIN0400-020-60-GE	40	2	Ravg<2%@8~12μm
WIN0500-030-60-GE	50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



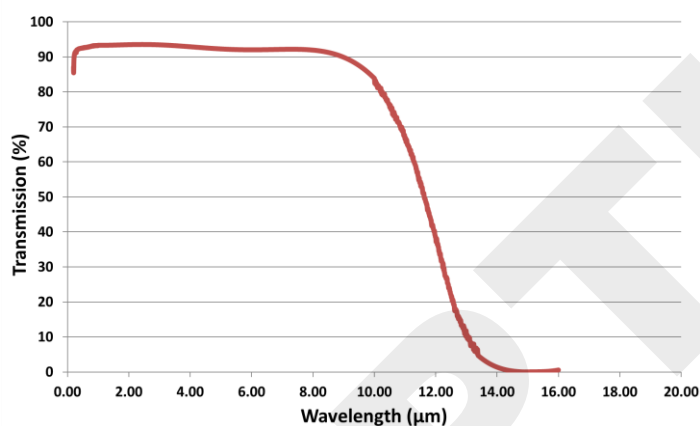
CaF2 Transmission

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 mmX45°
- **Coating:** None



BaF2 Transmission

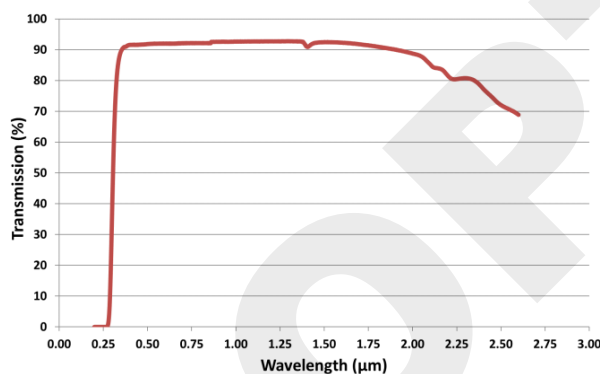
Part No.	Diameter (mm)	Thickness (mm)
WIN0125-020-60-BF	12.5	2
WIN0127-020-60-BF	12.7	2
WIN0250-030-60-BF	25	3
WIN0254-030-60-BF	25.4	3
WIN0400-030-60-BF	40	3
WIN0500-030-60-BF	50	3



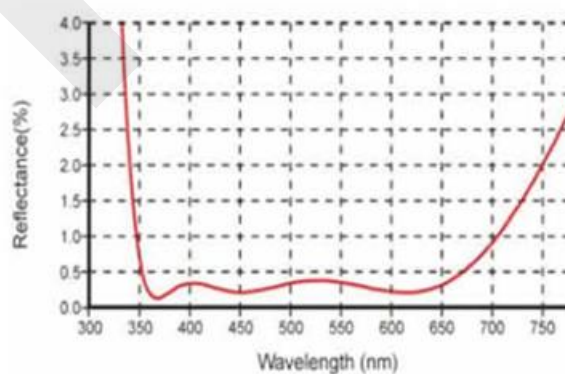
# K9 Wedge Windows

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.

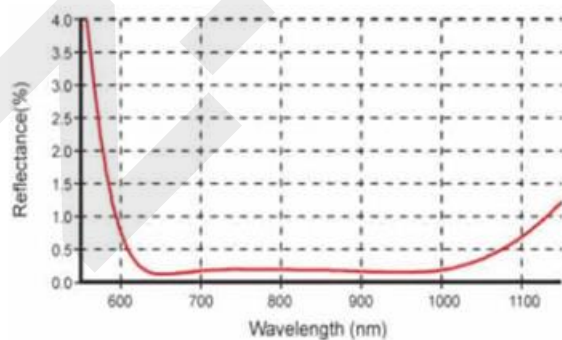
- **Material:** H-K9L
- **Surface Figure:**  $\lambda/10@633\text{nm}$
- **Wedge Angle:**  $30' \pm 10'$
- **Surface Quality:** 40-20 Scratch and Dig
- **Diameter Tolerance:**  $+0.0/-0.1 \text{ mm}$
- **Thickness Tolerance:**  $\pm 0.2\text{mm}$
- **Chamfer:** Protective chamfer  $0.2\sim 0.5\text{mm}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



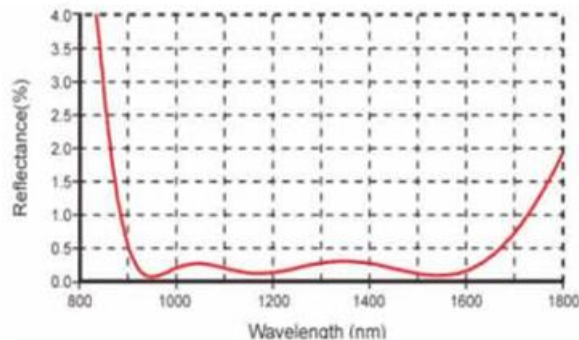
H-K9L Transmittance



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

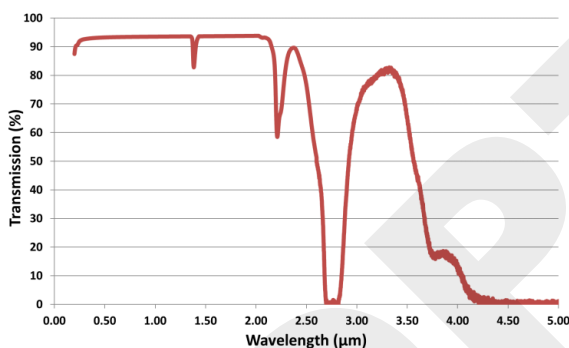
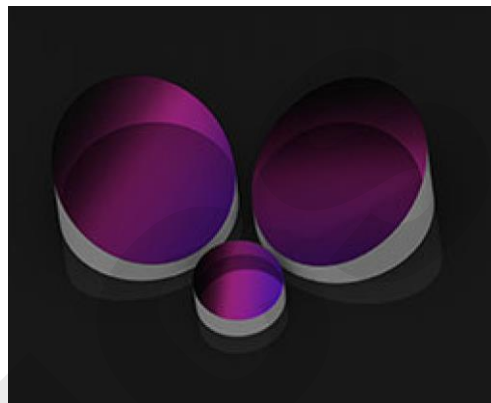
Unless otherwise specified, all dimensions are in mm



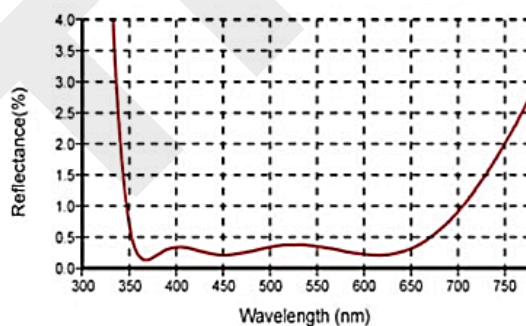
# Fused Silica Wedge Windows

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.

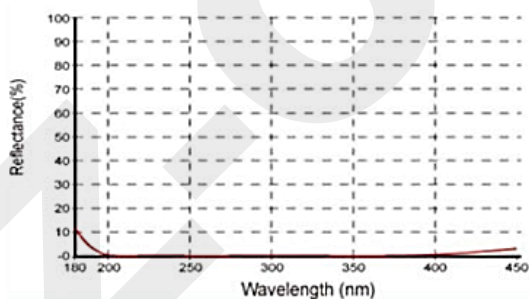
- **Material:** Fused Silica
- **Surface Figure:**  $\lambda/10@633\text{nm}$
- **Wedge Angle:**  $30' \pm 10'$
- **Surface Quality:** 40-20 Scratch and Dig
- **Diameter Tolerance:**  $+0.0/-0.1\text{mm}$
- **Thickness Tolerance:**  $\pm 0.2\text{mm}$
- **Chamfer:** Protective chamfer  $0.2\sim 0.5\text{mm}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



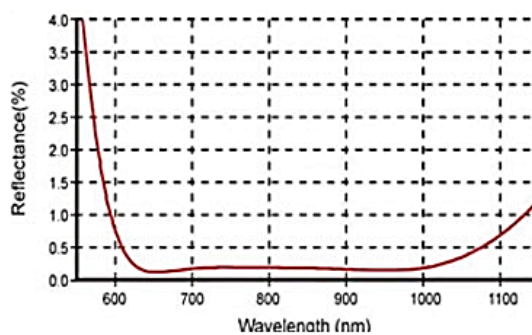
UV Fused Silica Transmission @10mm thickness



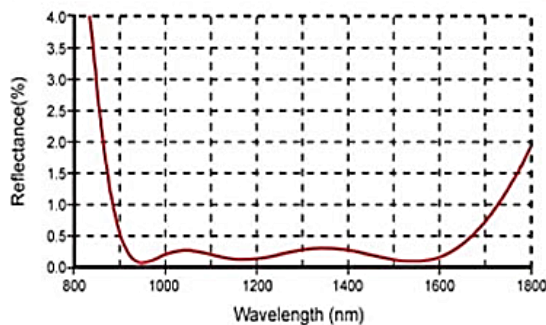
VIS coating @350~700nm



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:**  $55^\circ 34' @ 633\text{nm}$

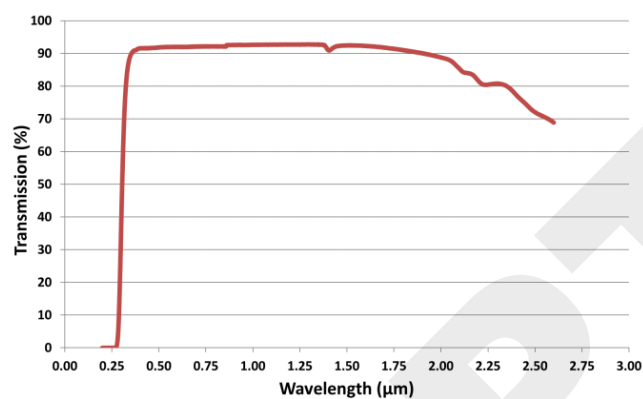
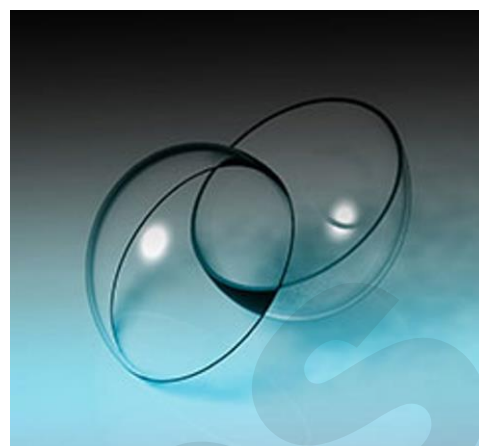


Part no	Long Axis (mm)	Short Axis (mm)	Thickness (mm)	Coating
WIN3177-100-20	17.69	10	2	none
WIN3221-125-20	22.11	12.5	2	none
WIN3282-160-20	28.23	16	2	none
WIN3354-200-20	35.37	20	2	none
WIN3442-250-20	44.21	25	2	none



# 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:**  $\pm 0.2$ mm
- **Chamfer:** Protective chamfer 0.2~0.5mmX45°
- **Coating:** none



K9 transmittance

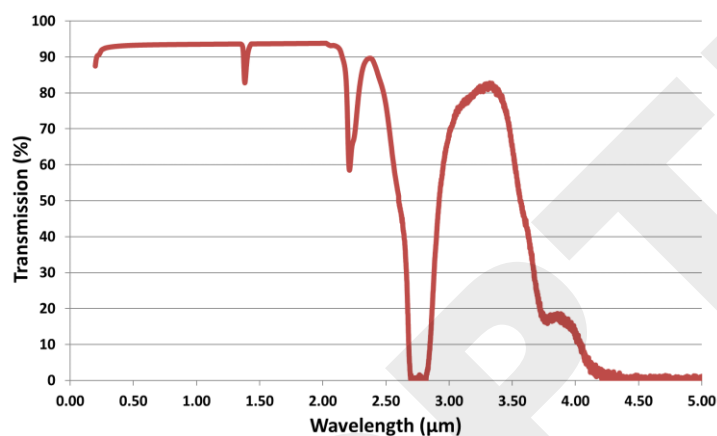
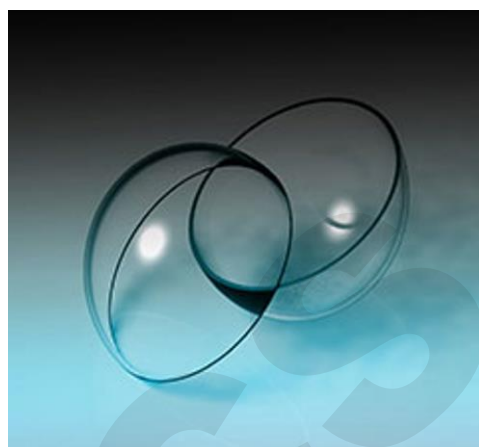
Part No.	Diameter (mm)	Height (mm)	Thickness (mm)
DOM025-115-10	25	11.5	1
DOM050-240-20	50	24	2
DOM075-365-30	75	36.5	3
DOM100-490-40	100	49	4





# Fused Silica Dome Cover

- **Material:** Fused Silica
- **Surface Figure:**  $\Delta N < 10$  @633nm
- **Surface Quality:** 80-50 Scratch and dig
- **Diameter Tolerance:** +0.0/-0.2mm
- **Thickness Tolerance:**  $\pm 0.2$ mm
- **Chamfer:** Protective chamfer 0.2~0.5mmX45°
- **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

