WINDOWS CATALOG

Ver.261111

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CERTIFIED ISO 9001:2015 COMPANY

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Z-OPTICS LIMITED

Laos Factory
B7 Building, Borten
Special Economic Zone,
Luang Namtha
Province, Laos
+856-2052054302

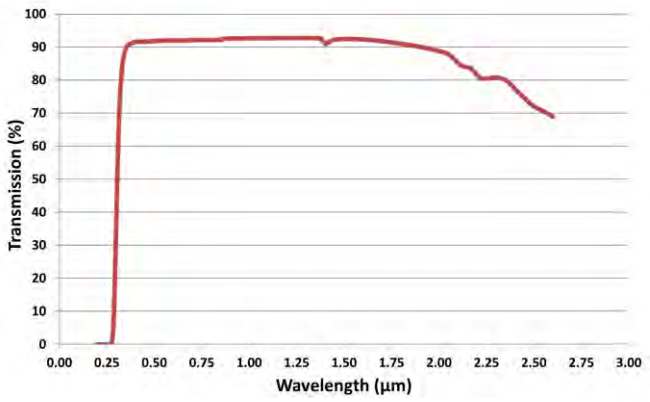
China
Zhejiang Province, China
linjiali
13706776900
+86-13706776900

India
Noida, U.P.
India
vaibhav.mohale1
+91-9028420101

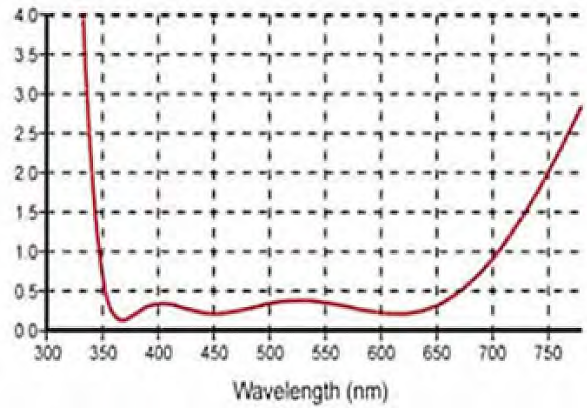
sales@z-optics.com

K9 Windows Standard Precision

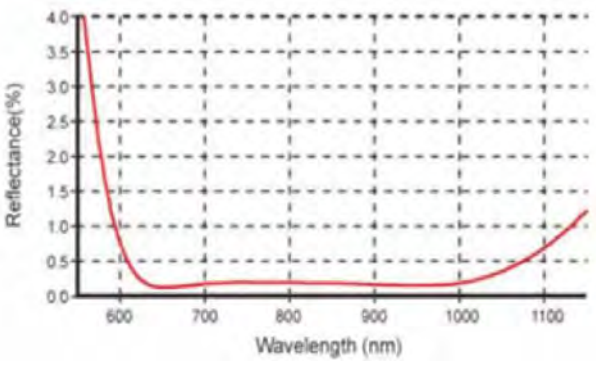
- **Material**: CDGM H-K9L
- **Surface Figure:** λ/4@633nm
- **Parallelism:** <30"
- **Surface Quality:** 60-40 scratch and dig
- **Diameter Tolerance:** +0.0/-0.1mm
- **Thickness Tolerance:** ±0.2mm
- **Chamfer:** 0.2~0.5mmx45º



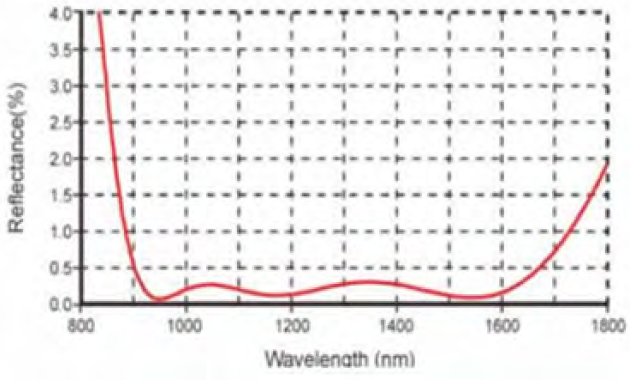
H-K9L Transmittance @10mm thickness



VIS coating@350~700nm



NIR coating @600~1100nm



SWIR Coating@900~1700nm

TOP

K9 Windows Standard Precision

- **Material**: CDGM H-K9L
- **Surface Figure:** λ/4@633nm
- **Parallelism:** <30"
- **Surface Quality:** 60-40 scratch and dig
- **Diameter Tolerance:** +0.0/-0.1mm
- **Thickness Tolerance:** ±0.2mm
- **Chamfer:** 0.2~0.5mmx45°

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

TOP

K9 Windows High Precision

- **Material:** H-K9L
- **Surface Figure:** λ/10@633nm
- **Parallelism:** <5"
- **Surface Quality:** 40-20 Scratch and Dig
- **Diameter Tolerance:** + 0.0/-0.1mm
- **Thickness Tolerance:** ±0.2mm
- **Chamfer:** Protective chamfer 0.2~0.5mmx45°

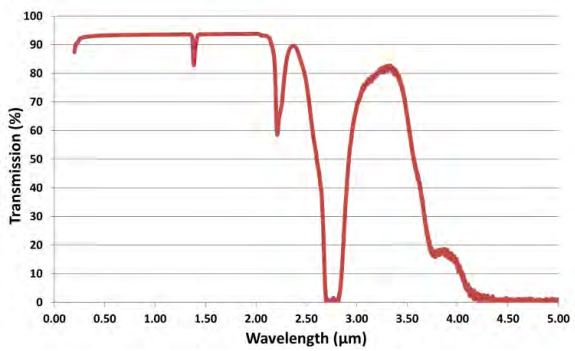
Diameter (mm)	Thickness (mm)	No Coating	AR@350~700nm	AR@600~1100nm	AR@900~1700nm
		Part No	Part No	Part No	Part No
5.0	2	WIN0050-020-05	WIN0050-020-05-VIS	WIN0050-020-05-NIR	WIN0050-020-05-SWIR
10.0	2	WIN0100-020-05	WIN0100-020-05-VIS	WIN0100-020-05-NIR	WIN0100-020-05-SWIR
12.5	3	WIN0125-030-05	WIN0125-030-05-VIS	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

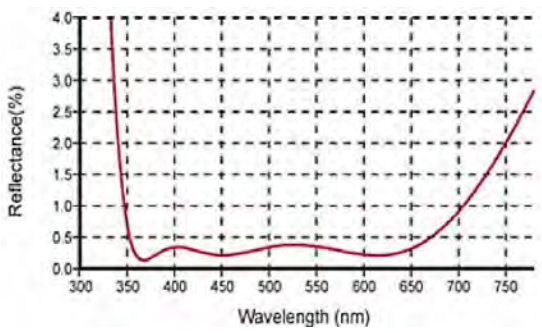
TOP

Fused Silica Windows standard precision

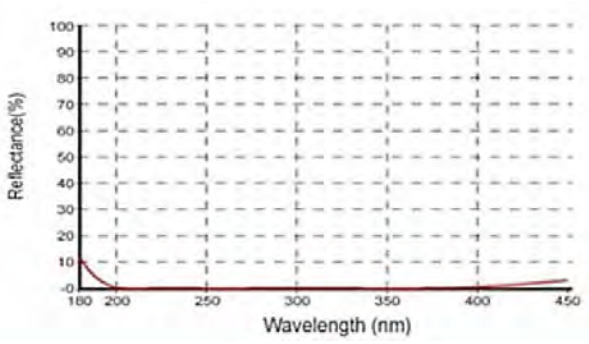
- **Material:** Fused Silica
- **Surface Figure:** λ/4@633nm
- **Parallelism:** <30"
- **Surface Quality:** 60-40 scratch and dig
- **Diameter Tolerance:** +0.0/ -0.1 mm
- **Thickness Tolerance:** ±0.2mm
- **Chamfer:** Protective chamfer 0.2~0.5mmX45°



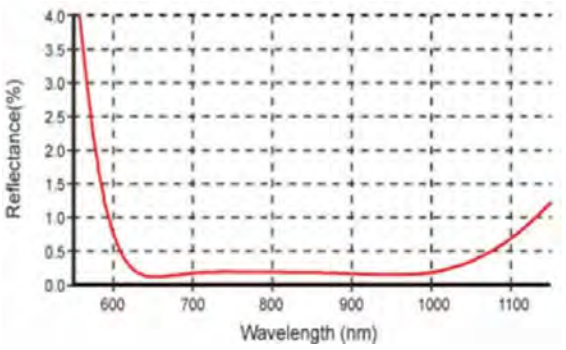
UV fused silica transmittance @10mm thickness



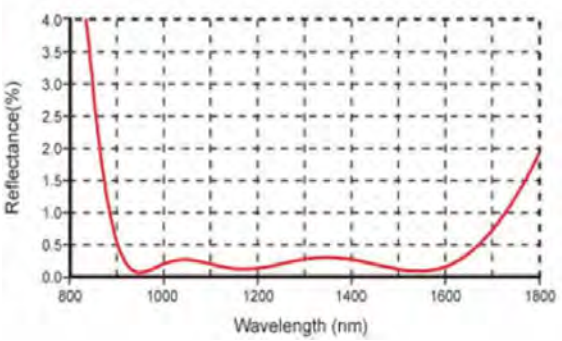
VIS coating@350~700nm



UV coating @ 250~400nm



NIR coating @600~1100nm



SWIR coating @900~1700nm

TOP

Fused Silica Windows standard precision

- **Material:** Fused Silica
- **Surface Figure:** λ/4@633nm
- **Parallelism:** <30"
- **Surface Quality:** 60-40 scratch and dig
- **Diameter Tolerance:** +0.0/ -0.1 mm
- **Thickness Tolerance:** ±0.2mm
- **Chamfer:** Protective chamfer 0.2~0.5mmX45º

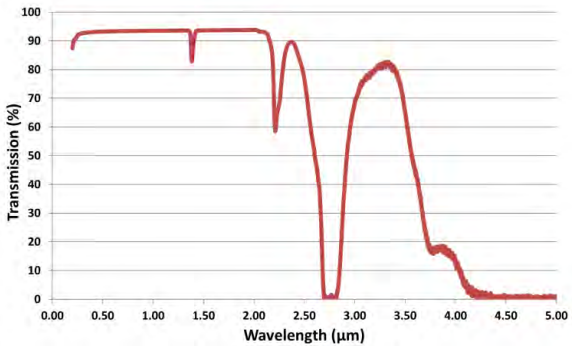
Diameter (mm)	Thickness (mm)	No Coating	AR@250~425nm	AR@350~700nm	AR@600~1100nm	AR@900~1700nm
		Part No	Part No	Part No	Part No	Part No
5.0	2	WIN0050-020-30-FS	WIN0050-020-30-FS-UV	WIN0050-020-30-FS-VIS	WIN0050-020-30-FS-NIR	WIN0050-020-30-FS-SWIR
10.0	2	WIN0100-020-30-FS	WIN0100-020-30-FS-UV	WIN0100-020-30-FS-VIS	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

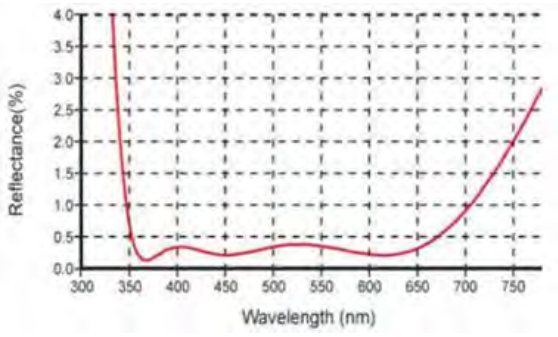
TOP

Fused Silica Windows high precision

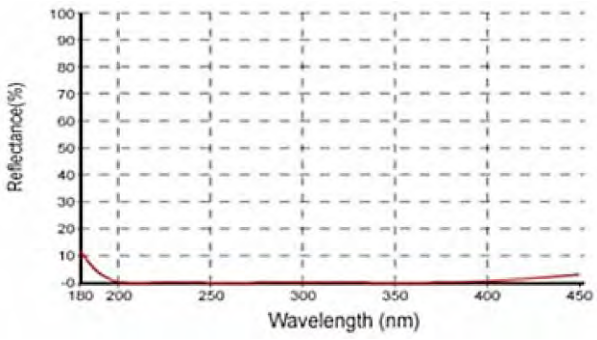
- **Material:** Fused Silica
- **Surface Figure:** λ/10@633nm
- **Parallelism:** <5"
- **Surface Quality:** 40-20 Scratch and Dig
- **Diameter Tolerance:** + 0.0/-0.1mm
- **Thickness Tolerance:** ±0.2mm
- **Chamfer:** Protective chamfer 0.2~0.5mmX45º
- **Coating:** see product list



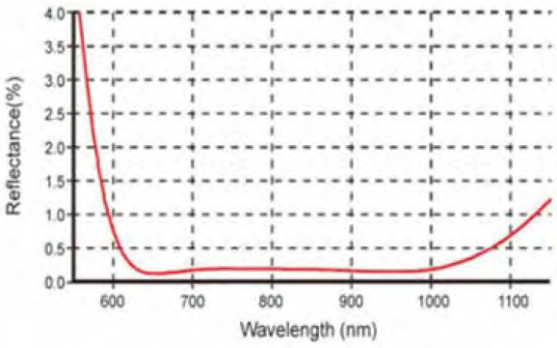
UV Fused Silica Transmission @10mm thickness



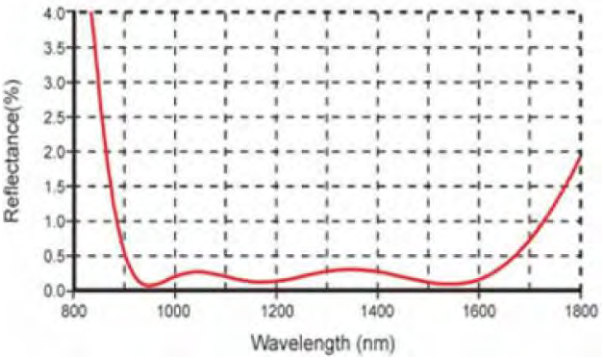
VIS coating @350~700nm



UV coating @250~400nm



NIR coating @600~1100nm



SWIR Coating @900~1700nm

TOP

Fused Silica Windows high precision

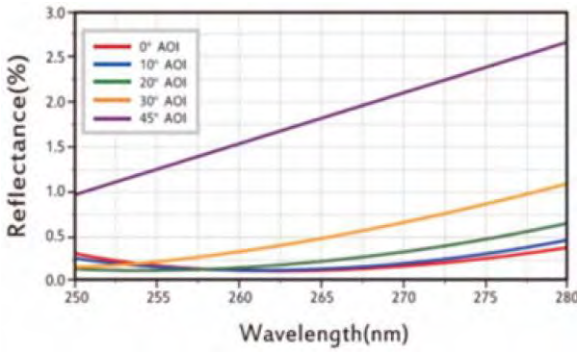
- **Material:** Fused Silica
- **Surface Figure:** λ/10@633nm
- **Parallelism:** <5"
- **Surface Quality:** 40-20 Scratch and Dig
- **Diameter Tolerance:** + 0.0/-0.1mm
- **Thickness Tolerance:** ±0.2mm
- **Chamfer:** Protective chamfer 0.2~0.5mmX45º
- **Coating:** see product list

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

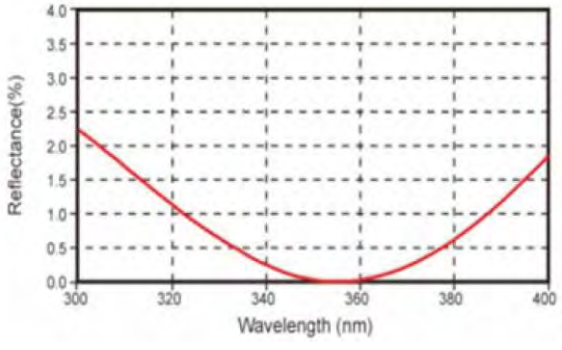
TOP

Fused Silica Windows Laser Line

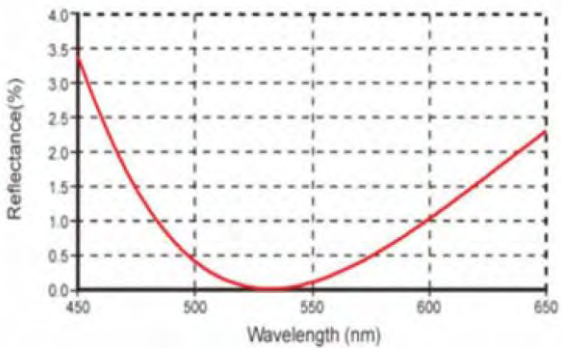
- **Material**: Fused Silica
- **Surface Figure:** λ/10 @633nm
- **Parallelism:** <5"
- **Surface Quality:** 40-20 Scratch and dig
- **Diameter Tolerance:** + 0.0/-0.1 mm
- **Thickness Tolerance**: ±0.2mm
- **Chamfer:** Protective chamfer 0.2~0.5mmX45°



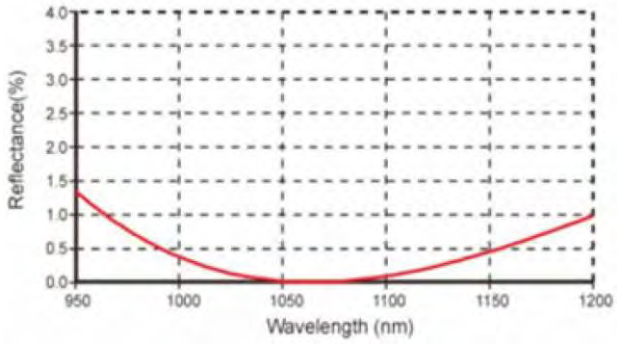
V coating R<0.25%266nm



V coating R<0.25%355nm



V coating R<0.25%532nm



V coating R<0.25%1064nm

TOP

Fused Silica Windows Laser Line

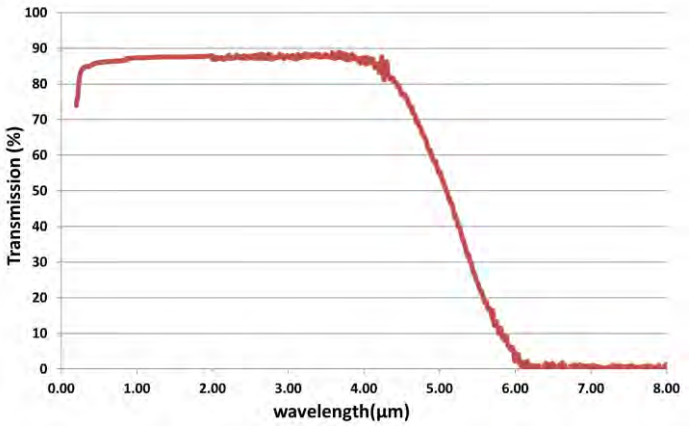
- **Material**: Fused Silica
- **Surface Figure:** λ/10 @633nm
- **Parallelism:** <5"
- **Surface Quality:** 40-20 Scratch and dig
- **Diameter Tolerance:** + 0.0/-0.1 mm
- **Thickness Tolerance**: ±0.2mm
- **Chamfer:** Protective chamfer 0.2~0.5mmX45°

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

TOP

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:** ±0.1mm
- **Chamfer:** Protective chamfer 0.2~0.5mmX45°
- **Coating:** None



Sapphire Windows transmission

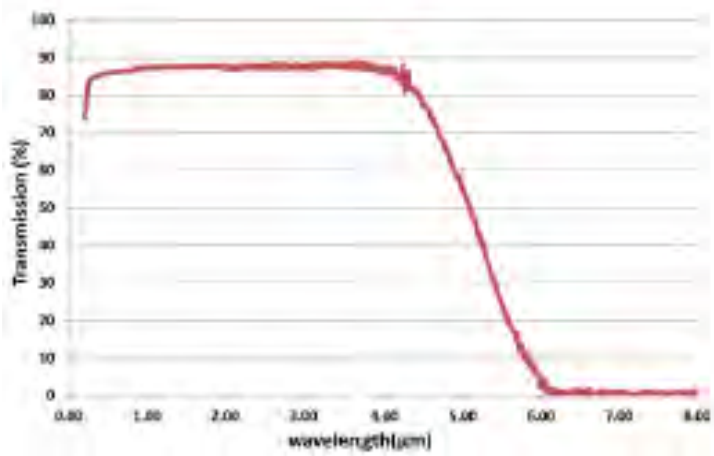
Part no	Diameter (mm)	Thickness (mm)
WIN0030-005-180-SP	3	0.5
WIN0050-005-180-SP	5	0.5
WIN0063-005-180-SP	6.3	0.5
WIN0080-010-180-SP	8	1
WIN0100-010-180-SP	10	1
WIN0125-010-180-SP	12.5	1
WIN0200-010-180-SP	20	1
WIN0250-010-180-SP	25	1
WIN0250-045-180-SP	25	4.5
WIN0320-090-180-SP	32	9
WIN0380-010-180-SP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

TOP

Sapphire Windows - High Precision

- **Material**: Sapphire
- **Surface Figure:** λ/4@633nm
- **parallelism:** < 30”
- **Surface Quality:** 40-20 Scratch and dig
- **Diameter Tolerance:** +0.0/-0.1mm
- **Thickness Tolerance:** ±0.1mm
- **Chamfer:** Protective chamfer 0.2~0.5mmX45°
- **Coating:** None



Sapphire Windows transmission

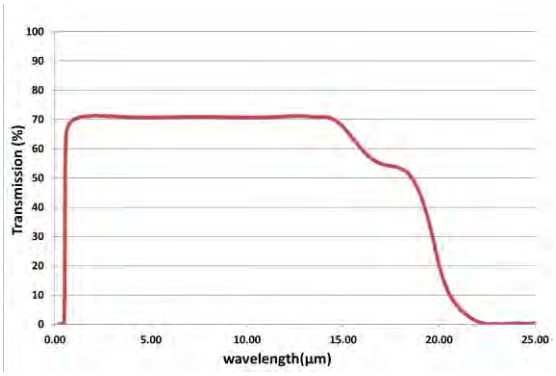
Part no	Diameter (mm)	Thickness (mm)
WIN0030-010-30-SP	3	1
WIN0050-010-30-SP	5	1
WIN0063-010-30-SP	6.3	1
WIN0080-010-30-SP	8	1
WIN0100-010-30-SP	10	1
WIN0125-010-30-SP	12.5	1
WIN0125-020-30-SP	12.5	2
WIN0200-010-30-SP	20	1
WIN0200-020-30-SP	20	2
WIN0250-010-30-SP	25	1
WIN0250-020-30-SP	25	2

Unless otherwise specified, all dimensions are in mm

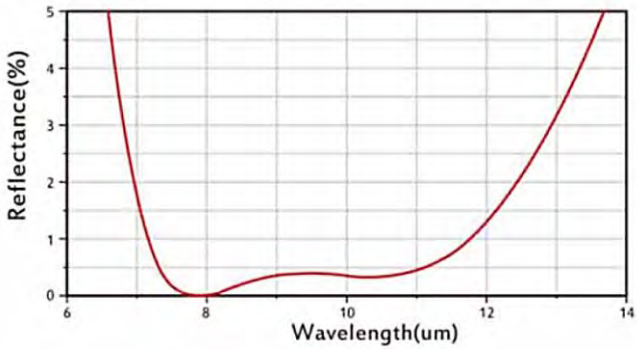
ZnSe Windows



- **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 0.2mmX45º
- **Coating:** see product list



ZnSe Transmission



IR2 Coating @8~12μm

Part No	Diameter (mm)	Thickness(mm)	Coating
WIN0075-010-60-ZnSe	7.5	1	
WIN0100-010-60-ZnSe	10	1	
WIN0100-020-60-ZnSe	10	2	
WIN0120-010-60-ZnSe	12	1	
WIN0125-030-60-ZnSe	12.5	3	none
WIN0125-030-60-ZnSe	12.5	3	AR Ravg<1% 8~12μm
WIN0127-005-60-ZnSe	12.7	0.5	
WIN0127-010-60-ZnSe	12.7	1	
WIN0127-020-60-ZnSe	12.7	2	
WIN0127-030-60-ZnSe	12.7	3	none
WIN0127-030-60-ZnSe	12.7	3	AR Ravg<1% 8~12μm
WIN0130-010-60-ZnSe	13	1	
WIN0130-020-60-ZnSe	13	2	
WIN0130-060-60-ZnSe	13	6	

Unless otherwise specified, all dimensions are in mm

TOP

ZnSe Windows

Part No	Diameter (mm)	Thickness(mm)	Coating
WIN0140-010-60-ZnSe	14	1	
WIN0140-020-60-ZnSe	14	2	
WIN0150-010-60-ZnSe	15	1	
WIN0150-020-60-ZnSe	15	2	
WIN0150-030-60-ZnSe	15	3	
WIN0150-040-60-ZnSe	15	4	
WIN0190-020-60-ZnSe	19	2	
WIN0190-030-60-ZnSe	19	3	
WIN0200-005-60-ZnSe	20	0.5	
WIN0200-010-60-ZnSe	20	1	
WIN0200-015-60-ZnSe	20	1.5	
WIN0200-020-60-ZnSe	20	2	
WIN0200-030-60-ZnSe	20	3	
WIN0220-010-60-ZnSe	22	1	
WIN0220-020-60-ZnSe	22	2	none
WIN0220-020-60-ZnSe	22	2	AR Ravg<1% 8~12μm
WIN0240-020-60-ZnSe	24	2	
WIN0250-010-60-ZnSe	25	1	
WIN0250-020-60-ZnSe	25	2	
WIN0250-030-60-ZnSe	25	3	
WIN0250-040-60-ZnSe	25	4	
WIN0250-050-60-ZnSe	25	5	none
WIN0250-050-60-ZnSe	25	5	AR Ravg<1% 8~12μm
WIN0254-010-60-ZnSe	25.4	1	
WIN0254-020-60-ZnSe	25.4	2	
WIN0254-050-60-ZnSe	25.4	5	none
WIN0254-050-60-ZnSe	25.4	5	AR Ravg<1% 8~12μm
WIN0300-010-60-ZnSe	30	1	
WIN0300-020-60-ZnSe	30	2	
WIN0300-030-60-ZnSe	30	3	
WIN0300-050-60-ZnSe	30	5	
WIN0300-060-60-ZnSe	30	6	
WIN0310-020-60-ZnSe	31	2	
WIN0320-020-60-ZnSe	32	2	
WIN0320-030-60-ZnSe	32	3	
WIN0320-040-60-ZnSe	32	4	
WIN0320-055-60-ZnSe	32	5.5	
WIN0350-030-60-ZnSe	35	3	

TOP

Unless otherwise specified, all dimensions are in mm

ZnSe Windows

Part No	Diameter (mm)	Thickness(mm)	Coating
WIN0360-020-60-ZnSe	36	2	
WIN0380-010-60-ZnSe	38	1	
WIN0380-030-60-ZnSe	38	3	
WIN0380-040-60-ZnSe	38	4	
WIN0380-060-60-ZnSe	38	6	
WIN0400-010-60-ZnSe	40	1	
WIN0400-020-60-ZnSe	40	2	
WIN0400-030-60-ZnSe	40	3	
WIN0400-050-60-ZnSe	40	5	none
WIN0400-050-60-ZnSe	40	5	AR Ravg<1% 8~12μm
WIN0400-100-60-ZnSe	40	10	
WIN0430-050-60-ZnSe	43	5	
WIN0440-030-60-ZnSe	44	3	
WIN0450-030-60-ZnSe	45	3	
WIN0450-080-60-ZnSe	45	8	
WIN0470-030-60-ZnSe	47	3	
WIN0470-080-60-ZnSe	47	8	
WIN0480-040-60-ZnSe	48	4	
WIN0500-010-60-ZnSe	50	1	
WIN0500-020-60-ZnSe	50	2	
WIN0500-030-60-ZnSe	50	3	
WIN0500-040-60-ZnSe	50	4	
WIN0500-050-60-ZnSe	50	5	none
WIN0500-050-60-ZnSe	50	5	AR Ravg<1% 8~12μm
WIN0500-100-60-ZnSe	50	10	
WIN0508-010-60-ZnSe	50.8	1	
WIN0508-020-60-ZnSe	50.8	2	
WIN0508-030-60-ZnSe	50.8	3	
WIN0600-030-60-ZnSe	60	3	
WIN0600-050-60-ZnSe	60	5	
WIN0635-010-60-ZnSe	63.5	1	
WIN0635-020-60-ZnSe	63.5	2	
WIN0635-030-60-ZnSe	63.5	3	
WIN0700-060-60-ZnSe	70	6	
WIN0700-070-60-ZnSe	70	7	
WIN0700-100-60-ZnSe	70	10	
WIN0750-030-60-ZnSe	75	3	

TOP

Unless otherwise specified, all dimensions are in mm

ZnSe Windows

Part No	Diameter (mm)	Thickness(mm)	Coating
WIN0762-010-60-ZnSe	76.2	1	
WIN0762-020-60-ZnSe	76.2	2	
WIN0762-030-60-ZnSe	76.2	3	
WIN0800-030-60-ZnSe	80	3	
WIN0800-040-60-ZnSe	80	4	
WIN0800-050-60-ZnSe	80	5	
WIN0800-060-60-ZnSe	80	6	
WIN0800-080-60-ZnSe	80	8	
WIN0850-030-60-ZnSe	85	3	
WIN0900-030-60-ZnSe	90	3	
WIN0900-040-60-ZnSe	90	4	
WIN0990-040-60-ZnSe	99	4	
WIN01000-030-60-ZnSe	100	3	
WIN01000-040-60-ZnSe	100	4	
WIN01000-050-60-ZnSe	100	5	
WIN01016-015-60-ZnSe	101.6	1.5	
WIN01016-020-60-ZnSe	101.6	2	
WIN01016-030-60-ZnSe	101.6	3	

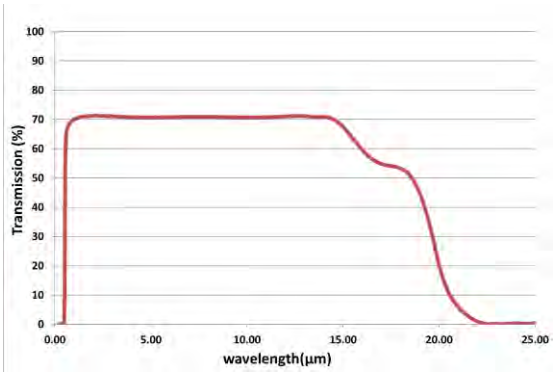
TOP

Unless otherwise specified, all dimensions are in mm

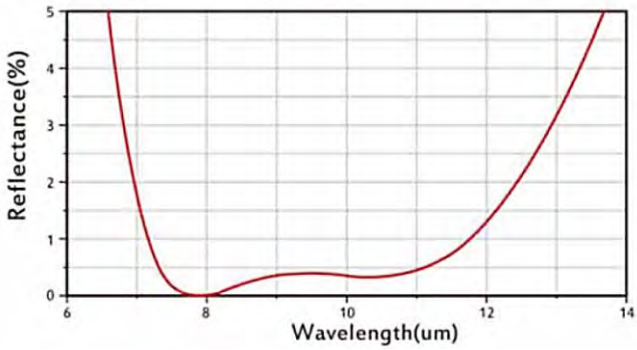
ZnSe Windows (Square)



- **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 0.2mmX45º
- **Coating:** see product list



ZnSe Transmission



IR2 Coating @8~12μm

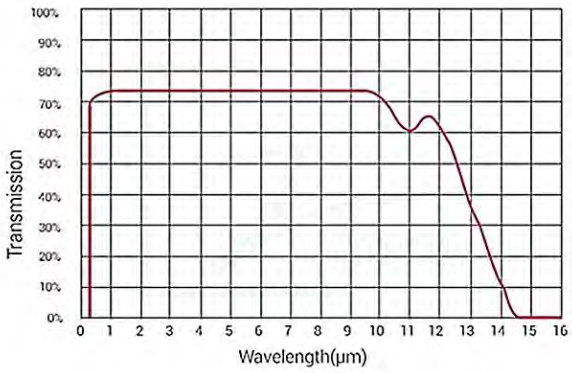
Part No	Diameter (mm)	Thickness(mm)
WIN1-100x100-10-ZnSe	10x10	1
WIN1-150x150-05-ZnSe	15x15	0.5
WIN1-150x150-10-ZnSe	15x15	1
WIN1-200X200-10-ZnSe	20x20	1
WIN1-360X250-10-ZnSe	36x25	1
WIN1-410X230-40-ZnSe	41x23	4
WIN1-750X750-40-ZnSe	75x75	4
WIN1-800X600-30-ZnSe	80x60	3
WIN1-850X600-30-ZnSe	85x60	3
WIN1-900X600-30-ZnSe	90x60	3
WIN1-1000X1000-30-ZnSe	100x100	3
WIN1-1000X1000-40-ZnSe	100x100	4

TOP

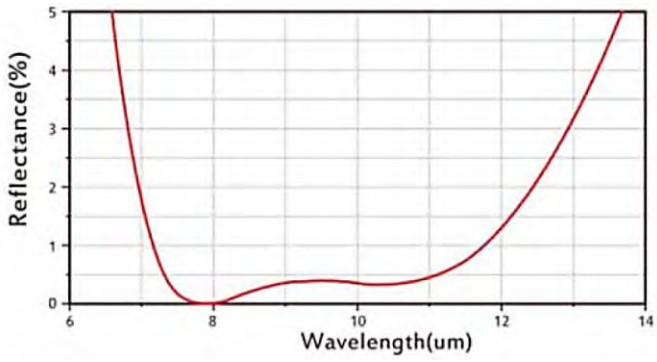
Unless otherwise specified, all dimensions are in mm

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:** ±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

TOP

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

TOP

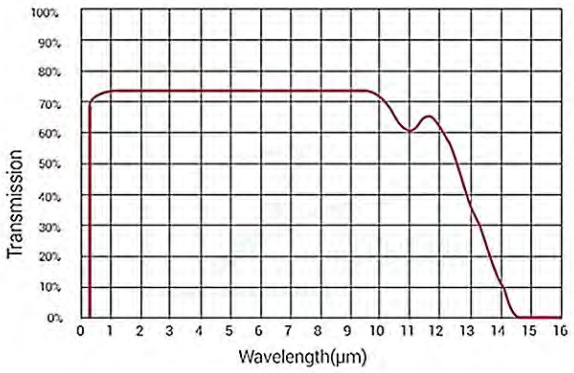
ZnS Windows

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

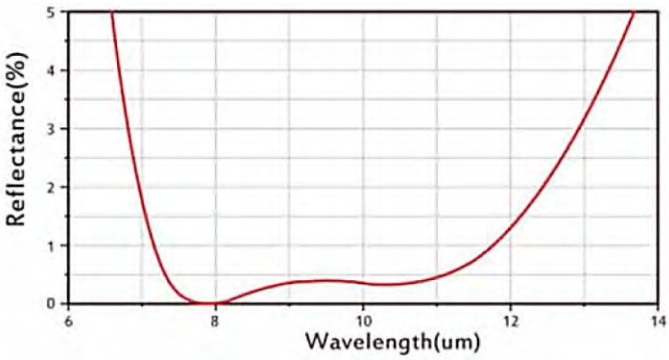
Unless otherwise specified, all dimensions are in mm

ZnS Windows (Square)

- **Material**: ZnS
- **Surface Figure:** 1 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



ZnS Transmission



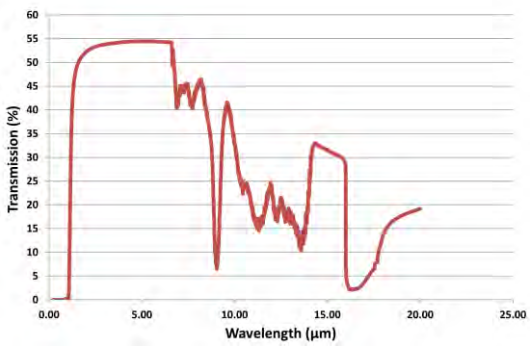
IR2 Coating @ 8~12μm

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

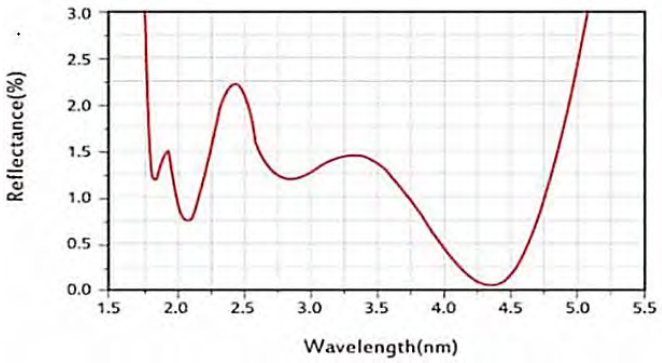
Unless otherwise specified, all dimensions are in mm

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:** ±0.1mm
- **Chamfer**: Protective chamfer 0.2mmX45º



Si Transmission



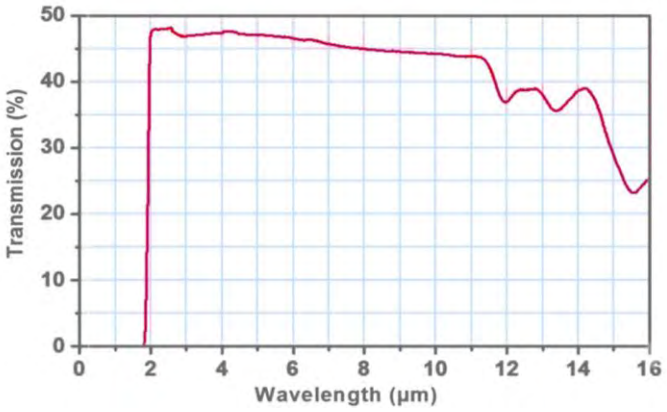
IR Coating @3~5μm

Part no	Diameter (mm)	Thickness (mm)	Coating
WIN0030-005-60-SI	3	0.5	Double-sided anti-reflection Ravq<1.5% @3~5μm
WIN0050-005-60-SI	5	0.5	Double-sided anti-reflection Ravq<1.5% @3~5μm
WIN0063-005-60-SI	6.3	0.5	Double-sided anti-reflection Ravq<1.5% @3~5μm
WIN0080-010-60-SI	8	1	Double-sided anti-reflection Ravq<1.5% @3~5μm
WIN0100-010-60-SI	10	1	Double-sided anti-reflection Ravq<1.5% @3~5μm
WIN0125-010-60-SI	12.5	1	Double-sided anti-reflection Ravq<1.5% @3~5μm
WIN0125-020-60-SI	12.5	2	Double-sided anti-reflection Ravq<1.5% @3~5μm
WIN0127-020-60-SI	12.7	2	Double-sided anti-reflection Ravq<1.5% @3~5μm
WIN0200-010-60-SI	20	1	Double-sided anti-reflection Ravq<1.5% @3~5μm
WIN0250-010-60-SI	25	1	Double-sided anti-reflection Ravq<1.5% @3~5μm
WIN0250-020-60-SI	25	2	Double-sided anti-reflection Ravq<1.5% @3~5μm
WIN0254-020-60-SI	25.4	2	Double-sided anti-reflection Ravq<1.5% @3~5μm
WIN0400-020-60-SI	40	2	Double-sided anti-reflection Ravq<1.5% @3~5μm
WIN0500-030-60-SI	50	3	Double-sided anti-reflection Ravq<1.5% @3~5μm

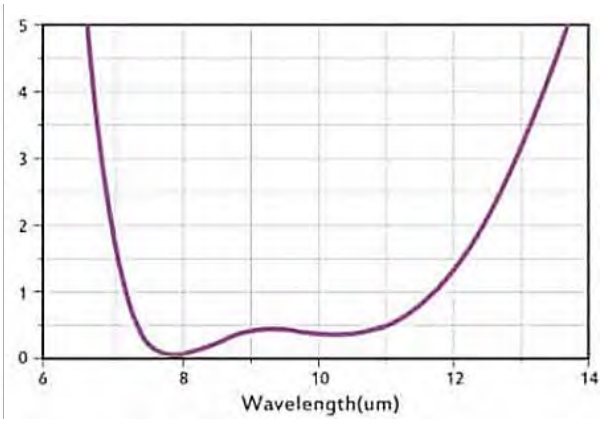
Unless otherwise specified, all dimensions are in mm

Germanium Windows

- **Material**: Germanium
- **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 0.2mmX45º
- **Coating:** See product list



Ge Transmission



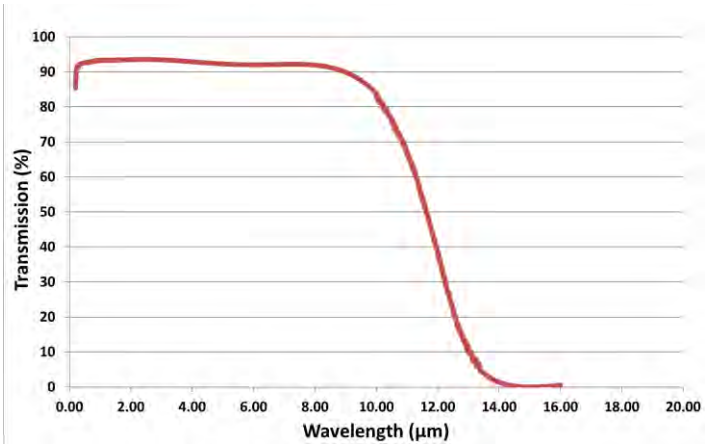
IR2 Coating @ 8~12μm

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

TOP

CaF2 Windows

- **Material**: CaF2
- **Surface Figure:** λ/8@633nm
- **Parallelism:** <10"
- **Surface Quality:** 60-40 scratch and dig
- **Diameter Tolerance:** +0.0/-0.2mm
- **Thickness Tolerance:** ±0.3mm
- **Chamfer**: Protective chamfer 0.2 mmX45º
- **Coating:** None



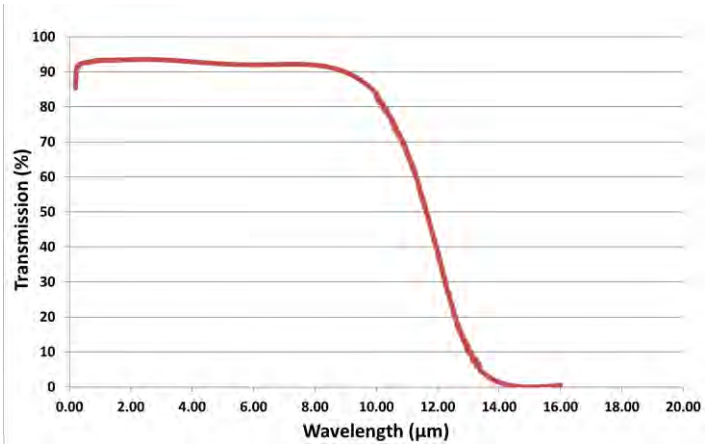
CaF2 Transmission

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

TOP

BaF2 Windows

- **Material**: BaF2
- **Surface Figure:** λ/2@633nm
- **Parallelism:** <1'
- **Surface Quality:** 60-40 scratch and dig
- **Diameter Tolerance:** +0.0/-0.1mm
- **Thickness Tolerance:** ±0.1 mm
- **Chamfer:** Protective chamfer 0.2 mmX45°
- **Coating:** None



BaF2 Transmission

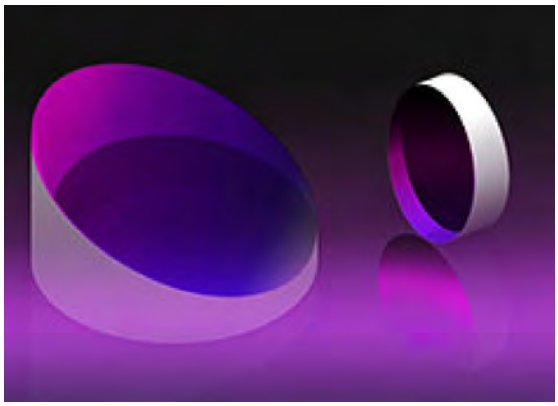
Part No.	Diameter (mm)	Thickness (mm)
WIN0125-020-60-BF	12.5	2
WIN0127-020-60-BF	12.7	2
WIN0250-030-60-BF	25	3
WIN0254-030-60-BF	25.4	3
WIN0400-030-60-BF	40	3
WIN0500-030-60-BF	50	3

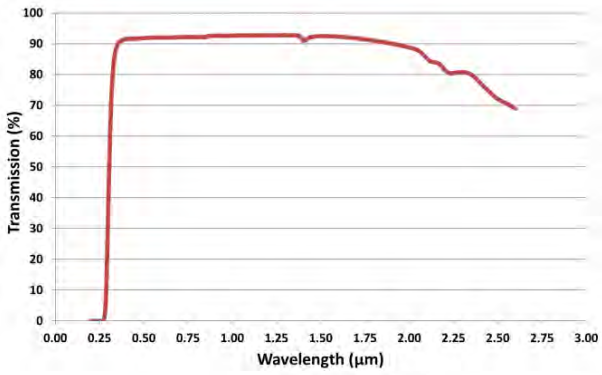
TOP

K9 Wedge Windows

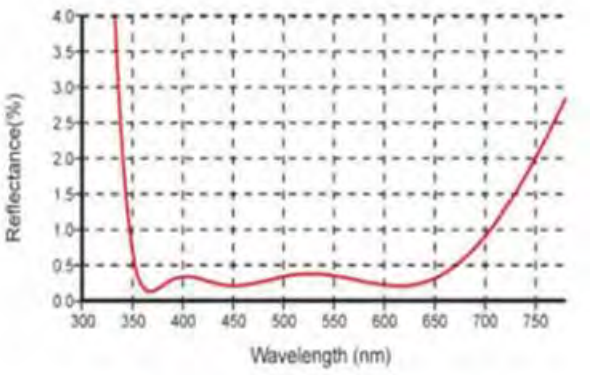
The high-precision Wedge Windows can avoid the etalon effect caused by the light reflected on the front and rear surfaces of the high-parallel Windows, and at the same time, it can also avoid interference with reflected beam, which causes power frustration and modes jumping.

- **Material**: H-K9L
- **Surface Figure:** λ/10@633nm
- **Wedge Angle:** 30’ ±10’
- **Surface Quality:** 40-20 Scratch and Dig
- **Diameter Tolerance:** +0.0/-0.1 mm
- **Thickness Tolerance:** ±0.2mm
- **Chamfer:** Protective chamfer 0.2~0.5mmX45°
- **Coating:** see product list

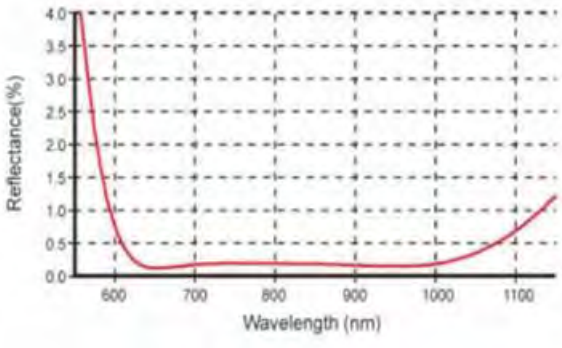




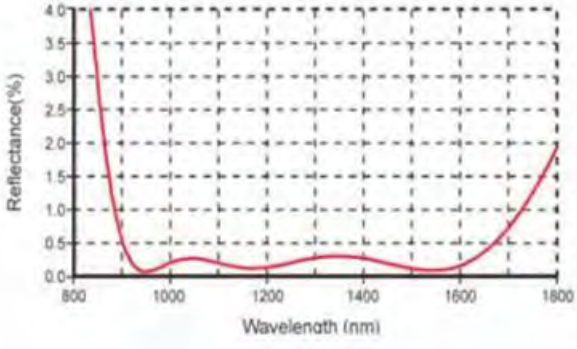
H-K9L Transmittance



VIS coating@350~700nm



NIR coating@600~1100nm



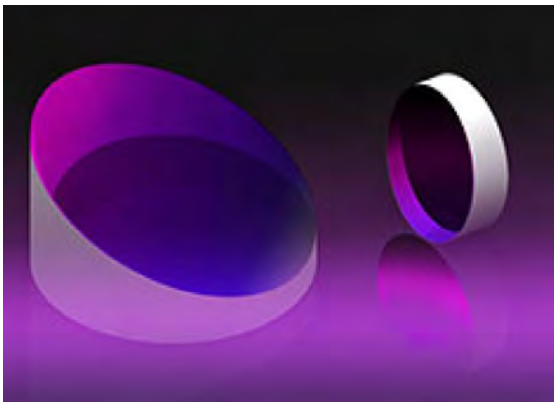
SWIR coating@900~1700nm

TOP

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:** λ/10@633nm
- **Wedge Angle:** 30’ ±10’
- **Surface Quality:** 40-20 Scratch and Dig
- **Diameter Tolerance:** +0.0/-0.1 mm
- **Thickness Tolerance:** ±0.2mm
- **Chamfer:** Protective chamfer 0.2~0.5mmX45°
- **Coating:** see product list



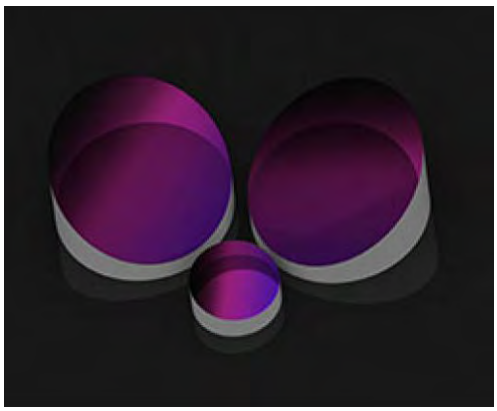
Diameter (mm)	Thickness (mm)	No Coating	AR@350~700nm	AR@600~1100nm	AR@900~1700nm
		Part No	Part No	Part No	Part No
12.5	3	WIN0125-030	WIN0125-030-VIS	WIN0125-030-NIR	WIN0125-030-SWIR
12.7	3	WIN0127-030	WIN0127-030-VIS	WIN0127-030-NIR	WIN0127-030-SWIR
25	6	WIN0250-060	WIN0250-060-VIS	WIN0250-060-NIR	WIN0250-060-SWIR
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

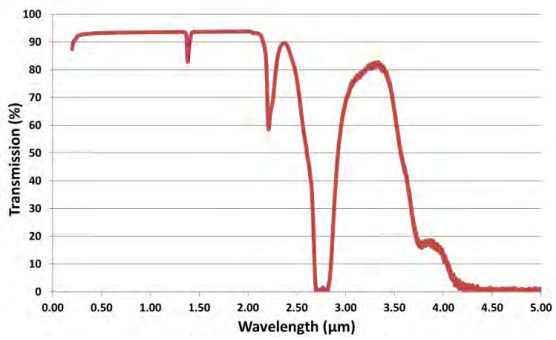
Unless otherwise specified, all dimensions are in mm

Fused Silica Wedge Windows

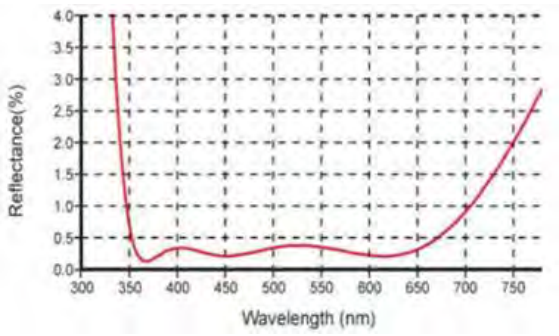
The high-precision Wedge Windows can avoid the etalon effect caused by the light reflected on the front and rear surfaces of the high-parallel Windows, and at the same time, it can also avoid interference with reflected beam, which causes power frustration and modes jumping.

- **Material:** Fused Silica
- **Surface Figure:** λ/10@633nm
- **Wedge Angle:** 30’ ±10’
- **Surface Quality:** 40-20 Scratch and Dig
- **Diameter Tolerance:** +0.0/-0.1mm
- **Thickness Tolerance:** ±0.2mm
- **Chamfer:** Protective chamfer 0.2~0.5mmX45º
- **Coating:** see product list

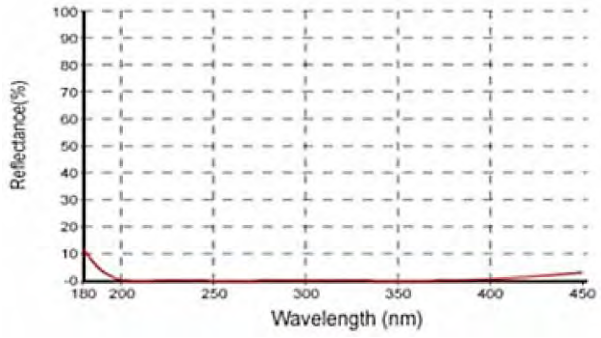




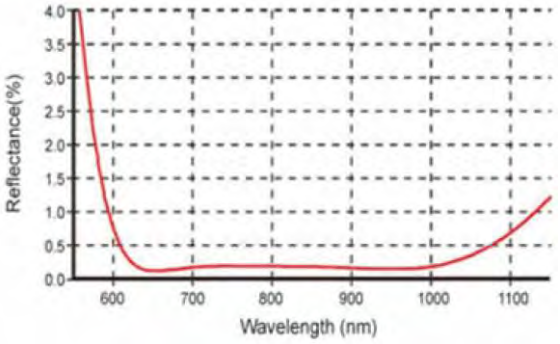
UV Fused Silica Transmission @10mm thickness



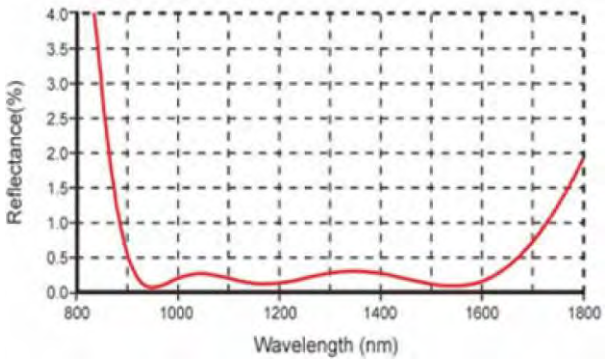
VIS coating @350~700nm



UV coating @250~400nm



NIR coating @600~1100nm



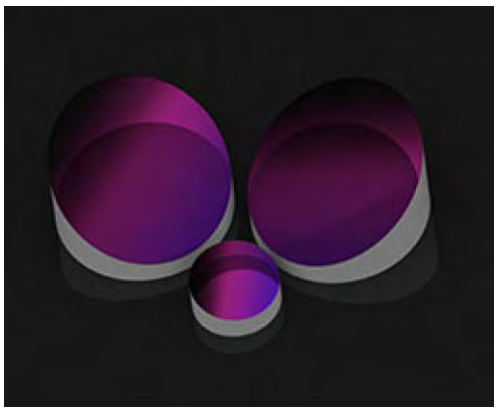
SWIR Coating @900~1700nm

TOP

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:** λ/10@633nm
- **Wedge Angle:** 30’ ±10’
- **Surface Quality:** 40-20 Scratch and Dig
- **Diameter Tolerance:** +0.0/-0.1mm
- **Thickness Tolerance:** ±0.2mm
- **Chamfer:** Protective chamfer 0.2~0.5mmX45º
- **Coating:** see product list



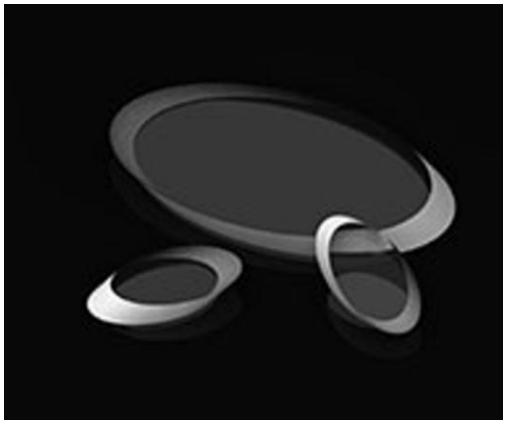
Diameter (mm)	Thickness (mm)	No Coating	AR@250~425nm	AR@350~700nm	AR@600~1100nm	AR@900~1700nm
		Part No	Part No	Part No	Part No	Part No
12.5	3	WIN0125-030	WIN0125-030-FS-UV	WIN0125-030-FS-VIS	WIN0125-030-FS-NIR	WIN0125-030-FS-SWIR
12.7	3	WIN0127-030	WIN0127-030-FS-UV	WIN0127-030-FS-VIS	WIN0127-030-FS-NIR	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

TOP

Brewster Windows

- **Material**: UV Fused Silica
- **Surface Figure:** <λ/10@633nm
- **Parallelism:** <5"
- **Surface Quality:** 40-20 Scratch and Dig
- **Diameter Tolerance:** +0.0/-0.1mm
- **Thickness Tolerance:** ±0.2mm
- **Chamfer:** Protective chamfer 0.2~0.5mmX45º
- **Brewster Angle:** 55º34'@633nm

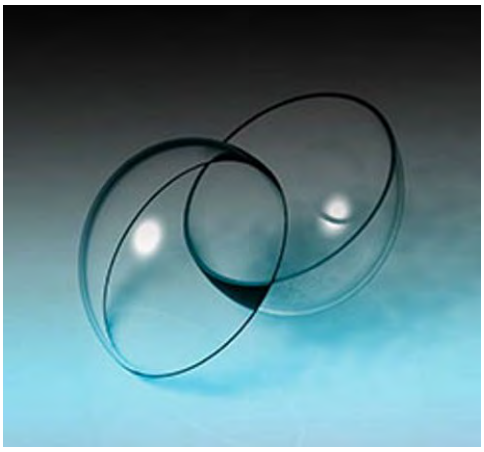


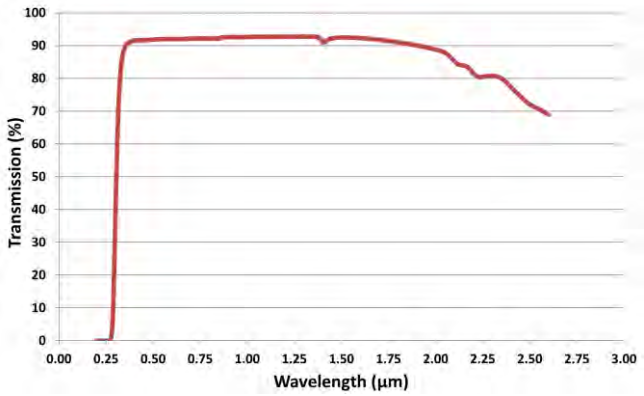
Part no	Long Axis (mm)	Short Axis (mm)	Thickness (mm)	Coating
WIN3177-100-20	17.69	10	2	none
WIN3221-125-20	22.11	12.5	2	none
WIN3282-160-20	28.23	16	2	none
WIN3354-200-20	35.37	20	2	none
WIN3442-250-20	44.21	25	2	none

TOP

K9 Dome Cover

- **Material**: H-K9L
- **Surface Figure:** ΔN<10 @633nm
- **Surface Quality:** 80-50 Scratch and dig
- **Diameter Tolerance:** +0.0/-0.2mm
- **Thickness Tolerance:** ±0.2mm
- **Chamfer:** Protective chamfer 0.2~0.5mmX45⁰
- **Coating:** none





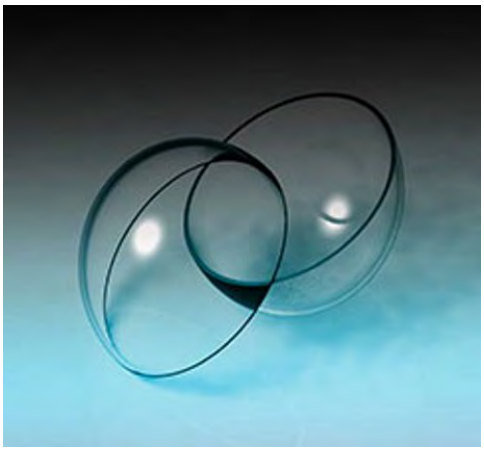
K9 transmittance

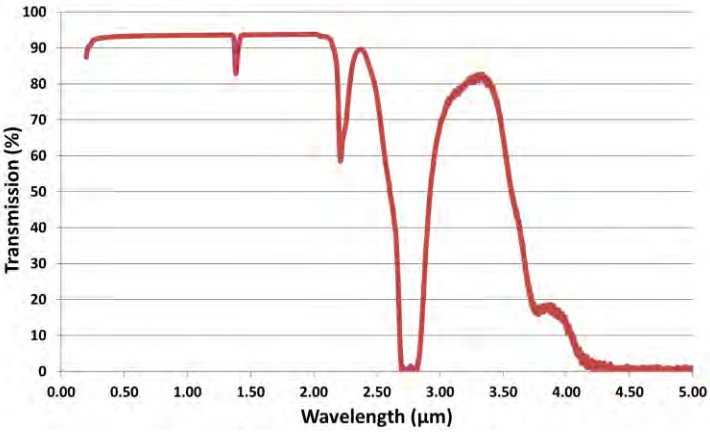
Part No.	Diameter (mm)	Height (mm)	Thickness (mm)
DOM025-115-10	25	11.5	1
DOM050-240-20	50	24	2
DOM075-365-30	75	36.5	3
DOM100-490-40	100	49	4

TOP

Fused Silica Dome Cover

- **Material**: Fused Silica
- **Surface Figure:** ΔN<10 @633nm
- **Surface Quality:** 80-50 Scratch and dig
- **Diameter Tolerance:** +0.0/-0.2mm
- **Thickness Tolerance:** ±0.2mm
- **Chamfer:** Protective chamfer 0.2~0.5mmX45^{0}
- **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

TOP