Prisms

Right-Angle Prisms

Specifications:
Material: BK7 glass or UV fused silica
Diameter tolerance: +0.0, -0.2mm
Flatness: λ/2@632.8nm
Surface quality: 60-40 scratch and dig
Bevel: 0.2mm to 0.5mm

BK7 Right-Angle Prisms

Size(mm)	3min. Deviation	1min. Deviation	30 sec. Deviation
	Part no.	Part no.	Part no.
A=B=C=5.0	RAP0001	RAP0101	RAP0201
A=B=C=10.0	RAP0002	RAP0102	RAP0202
A=B=C=12.7	RAP0003	RAP0103	RAP0203
A=B=C=15.0	RAP0004	RAP0104	RAP0204
A=B=C=20.0	RAP0005	RAP0105	RAP0205
A=B=C=25.4	RAP0006	RAP0106	RAP0206
A=B=C=30.0	RAP0007	RAP0107	RAP0207
A=B=C=40.0	RAP0008	RAP0108	RAP0208
A=B=C=50.8	RAP0009	RAP0109	RAP0209

UV Fused Silica Right-Angle Prisms

Size(mm)	3min. Deviation	1min. Deviation	30 sec. Deviation
	Part no.	Part no.	Part no.
A=B=C=12.7	RAP0301	RAP0401	RAP0501
A=B=C=25.4	RAP0302	RAP0402	RAP0502

Penta Prism

Specifications:
Material: BK7 Grade A Optical glass
Diameter tolerance: +0.0, -0.2mm
90 degree Deviation Tolerance
Standard series: < 30 arc seconds
Precision series: <10 arc seconds
Flatness:
Standard series: λ/2@632.8nm
Precision series: λ/4@632.8nm
Reflectivity: R>95% per face from 400nm to 800nm
Surface quality: 60-40 scratch and dig

Size(mm)	1min. Deviation	30 sec. Deviation	10 sec. Deviation
AXh(mm)	Part no.	Part no.	Part no.
7X6	PP0101	PP0201	PP0301
10X10	PP0102	PP0202	PP0302
15X15	PP0103	PP0203	PP0303
20X20	PP0104	PP0204	PP0304

Beamsplitter Penta Prism

Material: BK7 Grade A Optical glass
Diameter tolerance: +0.0, -0.2mm
90 degree or 0 degree Deviation Tolerance
Standard series: < 30 arc seconds
Precision series: <15 arc seconds
Flatness:
Standard series: λ/2@632.8nm
Precision series: λ/4@632.8nm
Beamsplitter ratio transmission/Reflection
@630-680nm, T/R: 25%/75%±5%
Surface quality: 60-40 scratch and dig

Size(mm)	1min. Deviation	30 sec. Deviation	15 sec. Deviation
AXh(mm)	Part no.	Part no.	Part no.
7X6	BPP0101	BPP0201	BPP0301
10X10	BPP0102	BPP0202	BPP0302
15X15	BPP0103	BPP0203	BPP0303
20X20	BPP0104	BPP0204	BPP0304

Dove Prism

Material: BK7 Grade A Optical glass
Dimension: +0.0, -0.2mm
Flatness: λ/2@632.8nm(*λ/8)
Angle: ±3 arc min.
Surface quality: 60-40 scratch and dig (* 20-10)

A(mm)	B(mm)	C(mm)	h(mm)	Part No.
5.0	7.1	21.1	5.0	DP0001
10.0	14.1	42.3	10.0	DP0002
15.0	21.2	63.4	15.0	DP0003
*20.0	28.2	80	20.0	DP0004

Roof Prism

Material: BK7 Grade A Optical glass
Dimension: +0.0, -0.2mm
Flatness: λ/2@632.8nm
Roof Angle: ±3arc sec.
Other Angles: ±3arc min.
Surface quality: 60-40 scratch and dig

A(mm)	B(mm)	h(mm)	Part No.
27.4	20.0	20.0	RP0001
41.1	30.0	30.0	RP0002

Corner Cube Retroreflector

Material: BK7 Grade A Optical glass
Dimension: +0.0, -0.2mm
Deviation: 180° ±3arc sec.
Flatness: λ/4@632.8nm on big surface
λ/10@632.8nm on other surface
Wavefront distortion: <λ/4@632.8nm
Surface quality: 60-40 scratch and dig

A(mm)	h(mm)	Part No.
15.0	11.3	CCR0101
25.4	19.0	CCR0102
38.0	28.5	CCR0103
50.8	37.5	CCR0104

Anamorphic Prism

Material: SF11 Grade A fine annealed optical glass
Dimension: +0.0, -0.15mm
Clear aperture: 90% of the central area
Flatness: λ/8@830nm
θ=29°27′±30″
Coating: MgF_2 single Layer @670nm or @830nm
On perpendicular surface
Surface quality: 60-40 scratch and dig

A(mm)	B(mm)	C(mm)	Part No.
12.0	12.0	8.5	AP0001

Fresnel Rhomb Prism

Material: BK7 glass or UV Grade fused silica
Dimension: +0.0, -0.15mm
Clear aperture: 90% of the area of surface
Flatness: λ/10@632.8nm
Wavelength range: 200-2000nm for fused silica
400-2000nm for BK7 glass
Surface quality: 20-10
Bevel: 0.25X45°

Part No.	A(mm)	B(mm)	h(mm)	Retardation	Material
FRP0001	35	40	37	λ/4	BK7
FRP0002	64	40	37	λ/2	BK7
FRP0003	35	40	37	λ/4	Fused silica
FRP0004	64	40	37	λ/2	Fused silica