SinoCeramics

Optical Components:

Prisms

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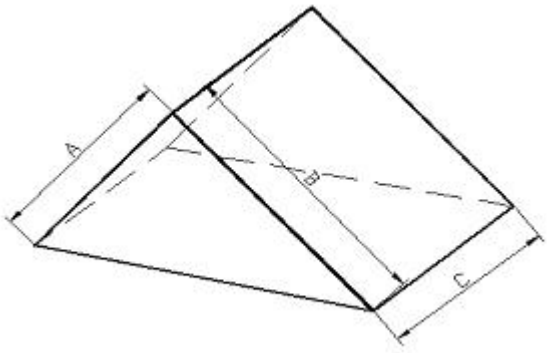
Right Angle Prism:

Specifications:
Material: BK7 grade A
Dimension Tolerance: ± 0.1mm
Clear Aperture: 80% Dimensions
Surface Quality: 60-40 or 20-10
Surface Flatness: λ /8 or λ /4 @ 633nm
Angle Tolerance: see table
Bevel: 0.3mm ± 0.1mm

- Fused Silica material is available
- High precision for laser system
- Other material is available if required
- Coating available if required



Part Number	A = B = C	Surface Quality	Flatness	Angle Tolerance
PRA1110	10.0mm	60-40	λ /2	< 3 arc mins
PRA1112	12.7mm	60-40	λ /2	< 3 arc mins
PRA1115	15.0mm	60-40	λ /2	< 3 arc mins
PRA1120	20.0mm	60-40	λ /2	< 3 arc mins
PRA1125	25.4mm	60-40	λ /2	< 3 arc mins
PRA1150	50.8mm	60-40	λ /2	< 3 arc mins

Part Number	A = B = C	Surface Quality	Flatness	Angle Tolerance
PRA1203	3.2mm	20-10	λ /8	< 30 arc seconds
PRA1205	5.0mm	20-10	λ /8	< 30 arc seconds
PRA1210	10.0mm	20-10	λ /8	< 30 arc seconds
PRA1212	12.7mm	20-10	λ /8	< 30 arc seconds
PRA1215	15.0mm	20-10	λ /8	< 30 arc seconds
PRA1220	20.0mm	20-10	λ /8	< 30 arc seconds
PRA1225	25.4mm	20-10	λ /8	< 30 arc seconds
PRA1250	50.8mm	20-10	λ /8	< 30 arc seconds

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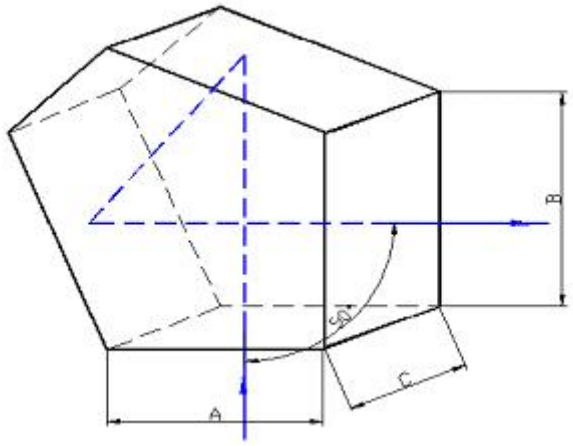
Penta Prism

Specifications:
Material: BK7 grade A
Dimension Tolerance: ± 0.1mm
Clear Aperture: 80% Dimensions
Surface Quality: 60-40
Surface Flatness: λ /4 @ 633nm
Angle Tolerance: Up to 10 seconds
Coasting: Aluminized and black paint overcoat
Bevel: 0.3mm ± 0.1mm



A = B = C	< 30 Second Deviation	< 10 Second Deviation
10.0mm	PPT1110	PPT1210
12.7mm	PPT1112	PPT1212
15.0mm	PPT1115	PPT1215
20.0mm	PPT1120	PPT1220
25.4mm	PPT1125	PPT1225
40.0mm	PPT1140	PPT1240

Part Number Information

PPT	1	1	25
Part Number	Material	Precision Serial	Size

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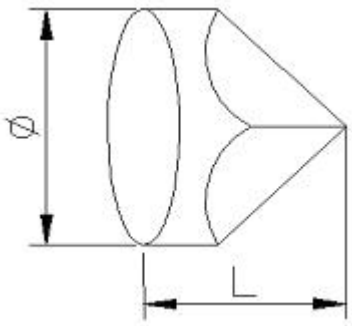
Retroreflector

Specifications:

Material: BK7 grade A
Dimension Tolerance: ± 0.1mm
Clear Aperture: 80% Dimensions
Surface Quality: 60-40
Surface Flatness: λ /4 @ 633nm for big surfaces
Surface Flatness: λ /4 @ 633nm for other surfaces
Angle Tolerance: 180° ± 5 arc seconds
Coasting: Aluminized and black paint on small surfaces
Bevel: 0.3mm ± 0.1mm



Part Number	Diameter	L
PER1115	15.0mm	11.3mm
PER1125	25.4mm	19.0mm
PER1130	38.0mm	28.5mm
PER1150	50.8mm	37.5mm

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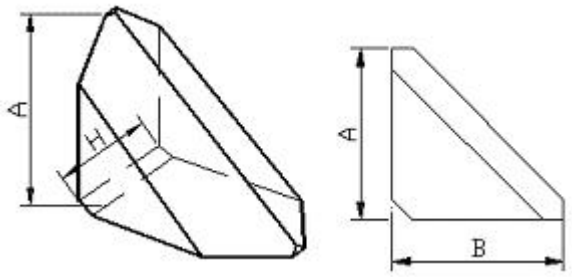
Roof Prism

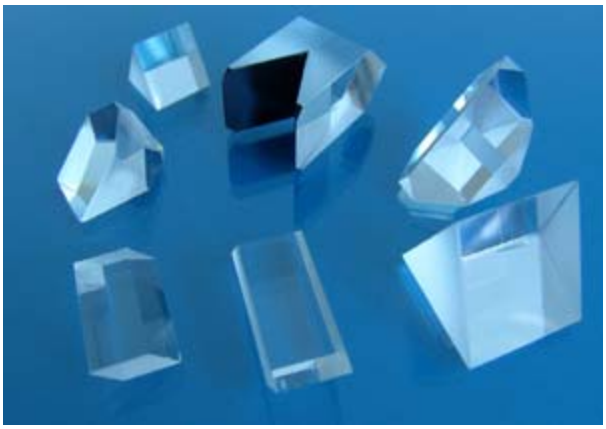
Specifications:
Material: BK7 grade A
Dimension Tolerance: ± 0.1mm
Clear Aperture: 80% Dimensions
Surface Quality: 60-40
Surface Flatness: λ /4 @ 633nm
Angle Tolerance: ± 3 arc min
Bevel: 0.3mm ± 0.1mm

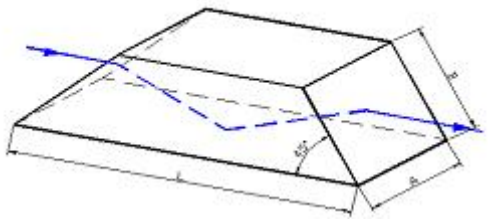


Part Number	A = B	H
PRF1110	15.0mm	12.0mm
PRF1115	23.0mm	18.0mm
PRF1120	31.5mm	23.0mm

Dove Prism

Specifications:
Material: BK7 grade A
Dimension Tolerance: ± 0.1mm
Clear Aperture: 80% Dimensions
Surface Quality: 60-40
Surface Flatness: λ /4 @ 633nm
Angle Tolerance: ± 3 arc min
Bevel: 0.3mm ± 0.1mm





Part Number	A	B	L
PDV1105	5.0mm	7.07mm	21.14mm
PDV1110	10.0mm	14.14mm	42.28mm
PDV1115	15.0mm	21.21mm	63.41mm
PDV1120	20.0mm	42.43mm	84.55mm

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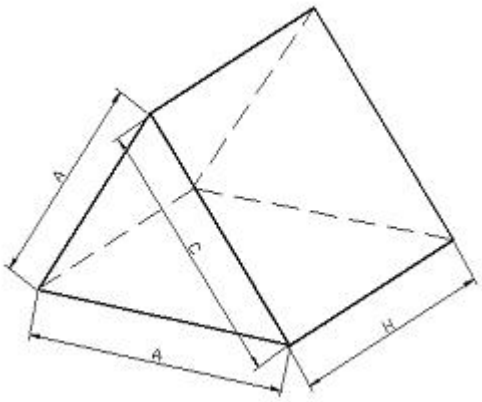
Dispersion Prism

Specifications:
Material: BK7 grade A
Dimension Tolerance: ± 0.1mm
Clear Aperture: 80% Dimensions
Surface Quality: 60-40
Surface Flatness: λ /4 @ 633nm
Angle Tolerance: 60° ± 3 arc min
Bevel: 0.3mm ± 0.1mm



Part Number	Material	A = B = C = H
PDP1115	BK7	15.0mm
PDP1125	BK7	25.0mm
PDP1140	BK7	40.0mm
PDP1015	F_2	15.0mm
PDP1025	F_2	25.0mm
PDP1040	F_2	40.0mm

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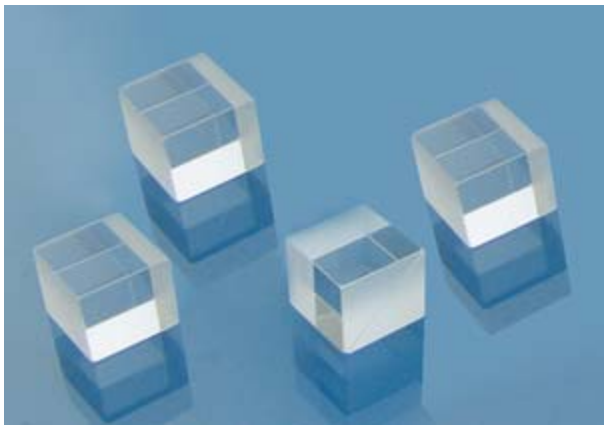
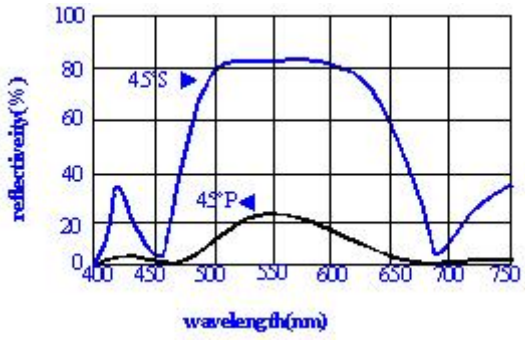
Narrow Band Beamsplitter

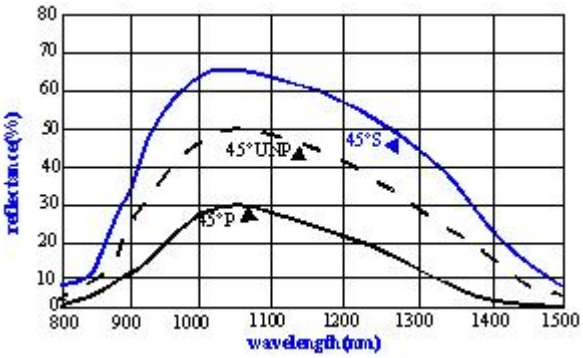
Specifications:

Material: BK7 grade A Optical Glass
Dimension Tolerance: ± 0.2mm
Surface Quality: 60-40 scratch and dig
T/R: 50/50 ± 5% for natural light
$T = (T_s+T_p)/2$, $R = (R_s + R_p)/2$
Surface Flatness: 1/4 @ 632.8nm
Beam Deviation: < 3 arc minutes
Coatings: Single wavelength partial reflectance on hypotenuse face "V"
AR-coatings on all input and output faces





R = 50.0% ± 2.0% @ 632.8nm
$R = (R_s + R_p)/2$



R = 50.0% ± 2.0% @ 1064nm
$R = (R_s + R_p)/2$

Wavelength (nm): 488,514,532,632,780,850,980,1064,1310,1550

Part Number	CBS1010	CBS1012	CBS1015	CBS1020	CBS1025
Dimensions (mm^3)	10x10x10	12.7x12.7x12.7	15x15x15	20x20x20	25.4x25.4x25.4

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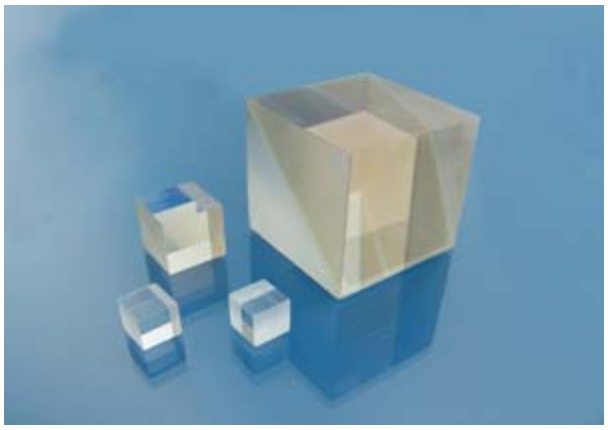
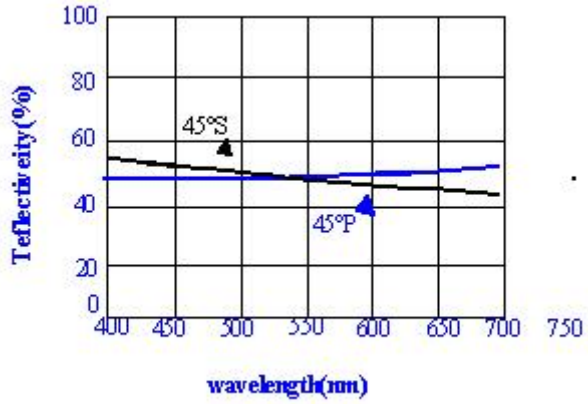
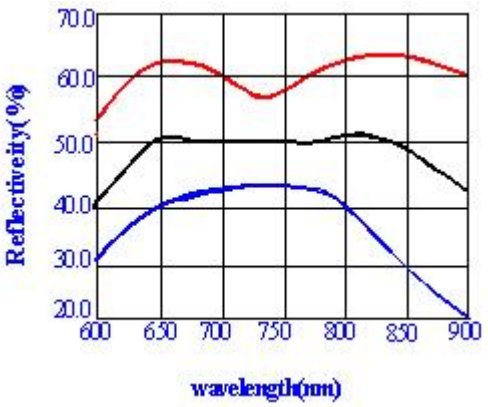
Broadband Beamsplitter Cube



Specifications:
Material: BK7 grade A Optical Glass
Dimension Tolerance: ± 0.2mm
Surface Quality: 60-40 scratch and dig
T/R: 50/50 ± 5% for natural light
$T = (T_s+T_p)/2$, $R = (R_s + R_p)/2$
Surface Flatness: 1/4 @ 632.8nm
Beam Deviation: < 3 arc minutes



Non Polarization Beamsplitter



Random Broadband Beamsplitter
R = 50.0% ± 5.0% @ 650-900nm

Dimensions: 10x10x10 (mm^3)

Wavelength (nm)	450-650	650-900	900-1200	1200-1550
Part Number	CBS1110	CBS1210	CBS1310	CBS1410

Dimensions: 12.7x12.7x12.7 (mm^3)

Wavelength (nm)	450-650	650-900	900-1200	1200-1550
Part Number	CBS1112	CBS1212	CBS1312	CBS1412

Dimensions: 15x15x15 (mm^3)

Wavelength (nm)	450-650	650-900	900-1200	1200-1550
Part Number	CBS1115	CBS1215	CBS1315	CBS1415

Dimensions: 20x20x20 (mm^3)

Wavelength (nm)	450-650	650-900	900-1200	1200-1550
Part Number	CBS1120	CBS1220	CBS1320	CBS1420

Dimensions: 25.4x25.4x25.4 (mm^3)

Wavelength (nm)	450-650	650-900	900-1200	1200-1550
Part Number	CBS1125	CBS1225	CBS1325	CBS1425