

PRISM CATALOG

Ver.210408

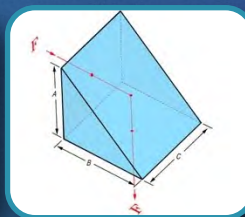
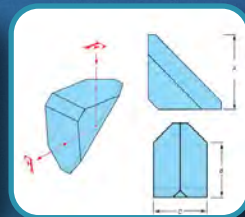
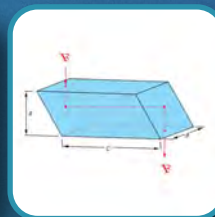
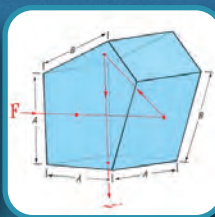
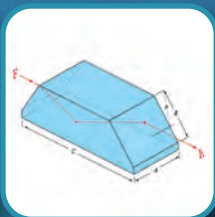
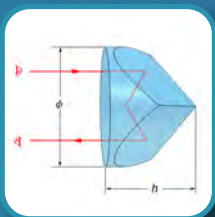
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10 DAYS LENS SAMPLING



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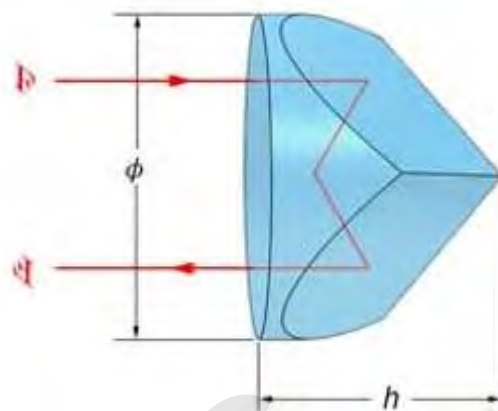
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K9 Corner Cube Retroreflector

- **Material:** H-K9L
- **Diameter Tolerance:** +0.0/-0.1mm
- **Height Tolerance:** +/-0.2mm
- **Surface Figure:** $\lambda/10@632.8\text{nm}$
- **Surface Quality:** 40-20
- **Angle Tolerance:** +/-15sec.
- **Chamfer:** <0.25mmx45°



Part no	Diameter	Height	Beam Diversion
PRS3080-10	8.0	6	<10"
PRS3100-03	10.0	9	<3"
PRS3125-15	12.5	9.5	<15"
PRS3150-03	15.0	11.3	<3"
PRS3254-03	25.4	19	<3"
PRS3254-10	25.4	19	<10"
PRS3380-03	38.0	28.5	<3"
PRS3500-03	50.0	42	<3"
PRS3508-03	50.8	37.5	<3"
PRS3622-05	62.2	47.9	<5"
PRS3650-10	65.0	39.12	<10"
PRS3725-10	72.5	52.35	<10"

*none coating, Aluminum Coating, Ag Coating, Copper Coating on back is optional



Fused Silica Corner Cube Retroreflector

Material: Fused Silica

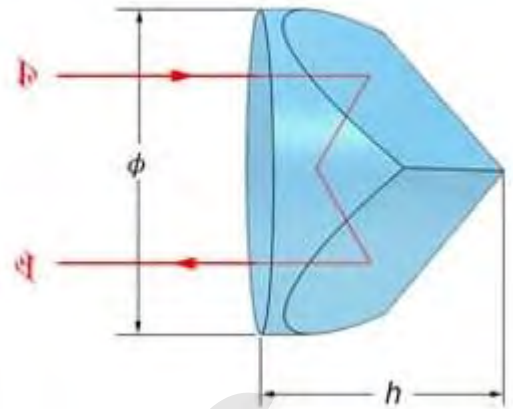
Diameter Tolerance: +0.0/-0.1mm

Height Tolerance: +/-0.2mm

Surface Figure: $\lambda/10@632.8\text{nm}$

Surface Quality: 60-40

Chamfer: <0.25mmx45



Part no	Diameter	Height	Beam Diversion
PRS3080-10-FS	8	6	<10"
PRS3125-15-FS	12.5	9.5	<15"
PRS3127-03-FS	12.7	10.16	<3"
PRS3254-03-FS	25.4	19	<3"
PRS3254-10-FS	25.4	19	<10"
PRS3381-03-FS	38.1	28.5	<3"
PRS3508-03-FS	50.8	37.5	<3"

*none coating, Aluminum Coating, Ag Coating, Copper Coating on back is optional



K9 Standard Right Angle Prism

Material: H-K9L

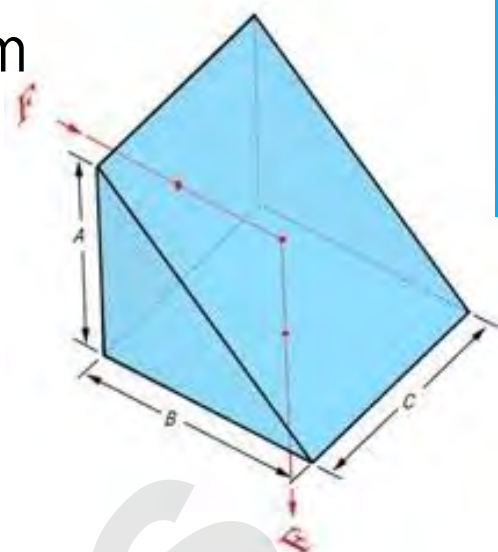
Size Tolerance: +0.0/-0.2mm

Surface Figure: $\lambda/4@632.8\text{nm}$

Surface Quality: 60-40

Angle Tolerance: +/-3 min.

Chamfer: <0.25mmx45°



Part no	Coating On Leg	Part no	Coating on Leg	A=B=C
PRS01-010-0		PRS01-010-0		1.0
PRS01-020-0		PRS01-020-0		2.0
PRS01-050-0-VIS	VIS	PRS01-050-0-NIR	NIR	5.0
PRS01-063-0-VIS	VIS	PRS01-063-0-NIR	NIR	6.3
PRS01-080-0-VIS	VIS	PRS01-080-0-NIR	NIR	8.0
PRS01-100-0-VIS	VIS	PRS01-100-0-NIR	NIR	10.0
PRS01-125-0-VIS	VIS	PRS01-125-0-NIR	NIR	12.5
PRS01-150-0-VIS	VIS	PRS01-150-0-NIR	NIR	15.0
PRS01-200-0-VIS	VIS	PRS01-200-0-NIR	NIR	20.0
PRS01-250-0-VIS	VIS	PRS01-250-0-NIR	NIR	25.0
PRS01-300-0-VIS	VIS	PRS01-300-0-NIR	NIR	30.0
PRS01-400-0-VIS	VIS	PRS01-400-0-NIR	NIR	40.0
PRS01-500-0-VIS	VIS	PRS01-500-0-NIR	NIR	50.0

*Aluminum coating on Hypotenuse



K9 Standard Right Angle Prism

Material: H-K9L

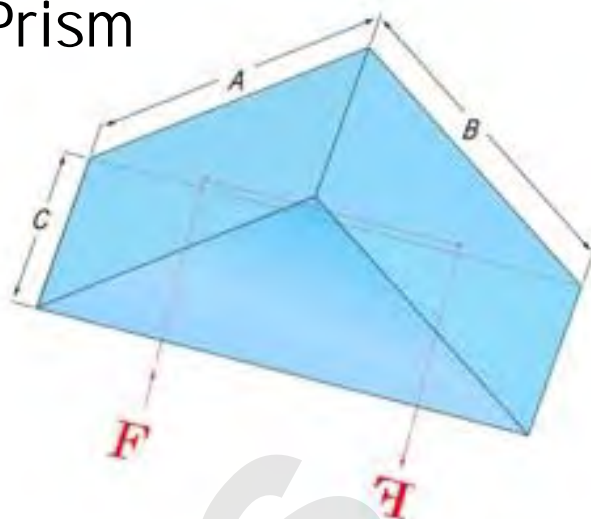
Size Tolerance: +0.0/-0.2mm

Surface Figure: $\lambda/4@632.8\text{nm}$

Surface Quality: 60-40

Angle Tolerance: +/-3 min.

Chamfer: <0.25mmx45°



Part no	Coating on Hypotenuse	Part no	Coating on Hypotenuse	A=B=C
PRS01-050-4-VIS	VIS	PRS01-050-4-NIR	NIR	5.0
PRS01-063-4-VIS	VIS	PRS01-063-4-NIR	NIR	6.3
PRS01-080-4-VIS	VIS	PRS01-080-4-NIR	NIR	8.0
PRS01-100-4-VIS	VIS	PRS01-100-4-NIR	NIR	10.0
PRS01-125-4-VIS	VIS	PRS01-125-4-NIR	NIR	12.5
PRS01-150-4-VIS	VIS	PRS01-150-4-NIR	NIR	15.0
PRS01-200-4-VIS	VIS	PRS01-200-4-NIR	NIR	20.0
PRS01-250-4-VIS	VIS	PRS01-250-4-NIR	NIR	25.0
PRS01-300-4-VIS	VIS	PRS01-300-4-NIR	NIR	30.0
PRS01-400-4-VIS	VIS	PRS01-400-4-NIR	NIR	40.0
PRS01-500-4-VIS	VIS	PRS01-500-4-NIR	NIR	50.0

***Aluminum coating on legs**



K9 High Precision Right Angle Prism

Material: H-K9L

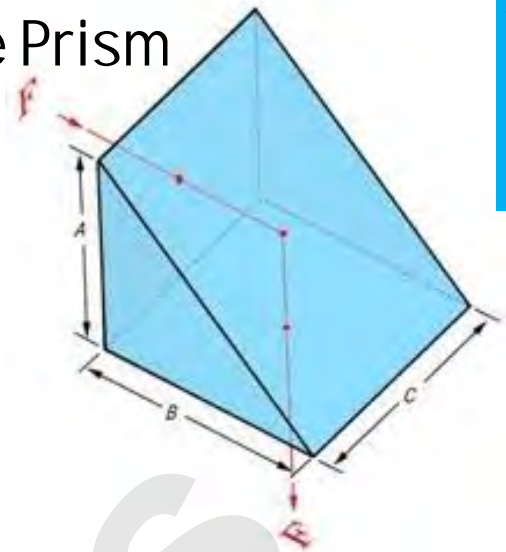
Size Tolerance: +0.0/-0.1mm

Surface Figure: $\lambda/10@632.8\text{nm}$

Surface Quality: 40-20

Angle Tolerance: +/-15sec.

Chamfer: <0.25mmx45°



Part no	Coating on Leg	Part no	Coating on Leg	A=B=C
PRS04-010-0		PRS04-010-0		1.0
PRS04-020-0		PRS04-020-0		2.0
PRS04-050-2-VIS	VIS	PRS04-050-2-NIR	NIR	5.0
PRS04-063-2-VIS	VIS	PRS04-063-2-NIR	NIR	6.3
PRS04-080-2-VIS	VIS	PRS04-080-2-NIR	NIR	8.0
PRS04-100-2-VIS	VIS	PRS04-100-2-NIR	NIR	10.0
PRS04-125-2-VIS	VIS	PRS04-125-2-NIR	NIR	12.5
PRS04-150-2-VIS	VIS	PRS04-150-2-NIR	NIR	15.0
PRS04-200-2-VIS	VIS	PRS04-200-2-NIR	NIR	20.0
PRS04-250-2-VIS	VIS	PRS04-250-2-NIR	NIR	25.0
PRS04-300-2-VIS	VIS	PRS04-300-2-NIR	NIR	30.0
PRS04-400-2-VIS	VIS	PRS04-400-2-NIR	NIR	40.0
PRS04-500-2-VIS	VIS	PRS04-500-2-NIR	NIR	50.0

*Aluminum coating on Hypotenuse



K9 High Precision Right Angle Prism

Material: H-K9L

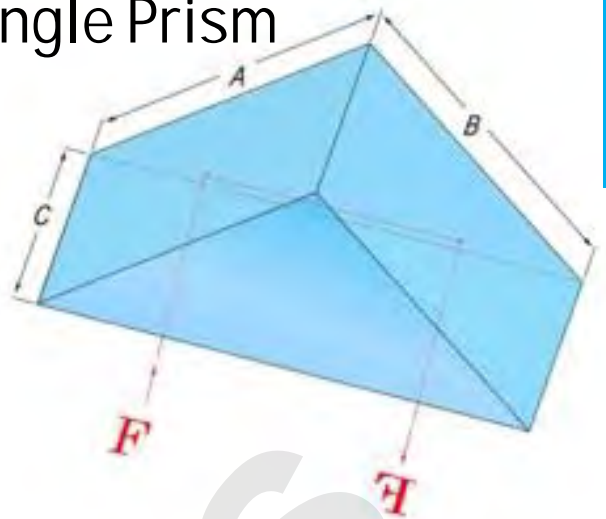
Size Tolerance: +0.0/-0.1mm

Surface Figure: $\lambda/10@632.8\text{nm}$

Surface Quality: 40-20

Angle Tolerance: +/-15sec.

Chamfer: <0.25mmx45°



Part no	Coating on Hypotenuse	Part no	Coating on Hypotenuse	A=B=C
PRS04-050-4-VIS	VIS	PRS04-050-4-NIR	NIR	5.0
PRS04-063-4-VIS	VIS	PRS04-063-4-NIR	NIR	6.3
PRS04-080-4-VIS	VIS	PRS04-080-4-NIR	NIR	8.0
PRS04-100-4-VIS	VIS	PRS04-100-4-NIR	NIR	10.0
PRS04-125-4-VIS	VIS	PRS04-125-4-NIR	NIR	12.5
PRS04-150-4-VIS	VIS	PRS04-150-4-NIR	NIR	15.0
PRS04-200-4-VIS	VIS	PRS04-200-4-NIR	NIR	20.0
PRS04-250-4-VIS	VIS	PRS04-250-4-NIR	NIR	25.0
PRS04-300-4-VIS	VIS	PRS04-300-4-NIR	NIR	30.0
PRS04-400-4-VIS	VIS	PRS04-400-4-NIR	NIR	40.0
PRS04-500-4-VIS	VIS	PRS04-500-4-NIR	NIR	50.0

*Aluminum coating on legs



Laser Application K9 Right Angle Prism

Material: H-K9L

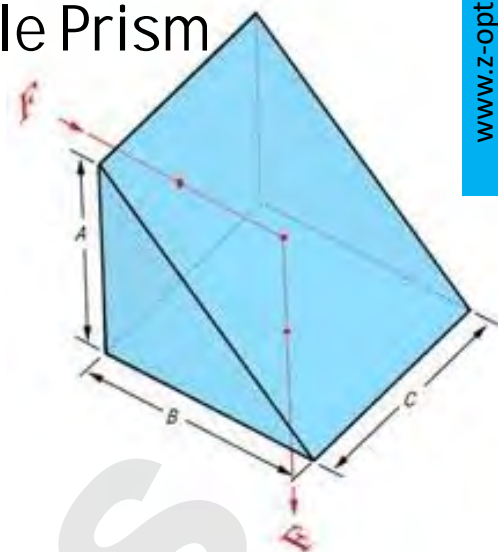
Size Tolerance: +0.0/-0.1mm

Surface Figure: $\lambda/10@632.8\text{nm}$

Surface Quality: 40-20

Angle Tolerance: +/-15sec.

Chamfer: <0.25mmx45°



Part No	Wavelength	Part no	Wavelength	Part no	Wavelength	A=B=C
PRS04-050-3-532		PRS04-050-3-633		PRS04-050-3-785		5
PRS04-100-3-532		PRS04-100-3-633		PRS04-100-3-785		10
PRS04-125-3-532	R<0.25% @ 532nm on Legs	PRS04-125-3-633	R<0.25% @ 633nm on Legs	PRS04-125-3-785	R<0.25% @ 785nm on Legs	12.5
PRS04-150-3-532		PRS04-150-3-633		PRS04-150-3-785		15
PRS04-200-3-532		PRS04-200-3-633		PRS04-200-3-785		20
PRS04-250-3-532		PRS04-250-3-633		PRS04-250-3-785		25



SiO₂ **Standard** Right Angle Prism

Material: Fused Silica

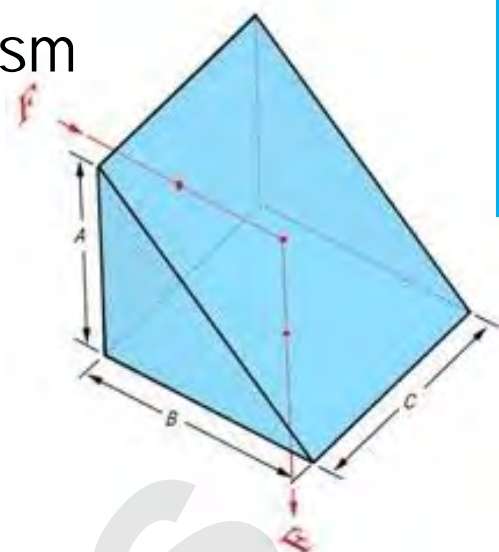
Size Tolerance: +0.0/-0.2mm

Surface Figure: $\lambda/4@632.8\text{nm}$

Surface Quality: 60-40

Angle Tolerance: +/-3 min.

Chamfer: <0.25mmx45°



Part no	Coating	Part no	Coating	A=B=C
PRS01-050-0-FS	none	PRS01-050-2-UV-FS	Aluminum Coating on Hypotenuse and AR@UV on Legs	5.0
PRS01-063-0-FS		PRS01-063-2-UV-FS		6.3
PRS01-100-0-FS		PRS01-100-2-UV-FS		10.0
PRS01-125-0-FS		PRS01-125-2-UV-FS		12.5
PRS01-150-0-FS		PRS01-150-2-UV-FS		15.0
PRS01-200-0-FS		PRS01-200-2-UV-FS		20.0
PRS01-250-0-FS		PRS01-250-2-UV-FS		25.0



SiO₂ High Precision Right Angle Prism

Material: Fused Silica

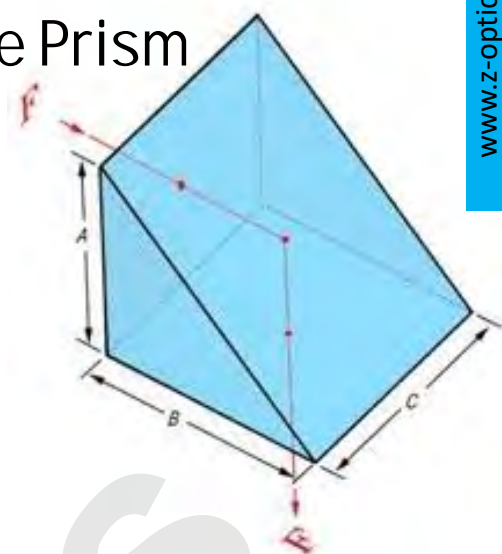
Size Tolerance: +0.0/-0.1mm

Surface Figure: $\lambda/10@632.8\text{nm}$

Surface Quality: 40-20

Angle Tolerance: +/-15 sec.

Chamfer: <0.25mmx45°



Part no	Coating	Part no	Coating	A=B=C
PRS04-050-0-FS		PRS04-050-2-UV-FS		5.0
PRS04-063-0-FS		PRS04-063-2-UV-FS		6.3
PRS04-100-0-FS		PRS04-100-2-UV-FS	Aluminum Coating on Hypotenuse and AR@UV on Legs	10.0
PRS04-125-0-FS	none	PRS04-125-2-UV-FS		12.5
PRS04-150-0-FS		PRS04-150-2-UV-FS		15.0
PRS04-200-0-FS		PRS04-200-2-UV-FS		20.0
PRS04-250-0-FS		PRS04-250-2-UV-FS		25.0



Laser Application SiO₂ Right Angle Prism

Material: Fused Silica

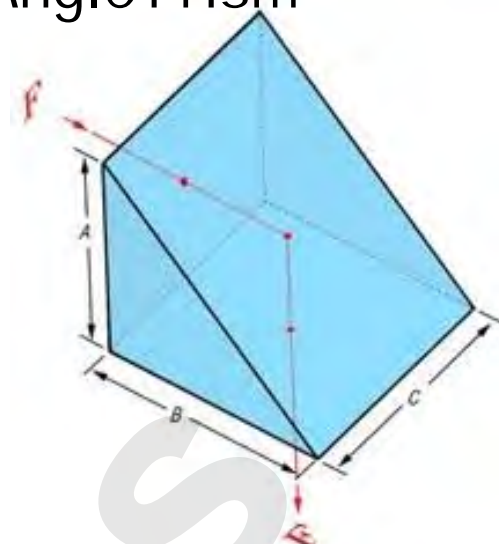
Size Tolerance: +0.0/-0.1mm

Surface Figure: $\lambda/10@632.8\text{nm}$

Surface Quality: 40-20

Angle Tolerance: +/-15 sec.

Chamfer: <0.25mmx45°



Part No	Wavelength	Part no	Wavelength	Part no	Wavelength	A=B=C
PRS04-050-3-355-FS		PRS04-050-3-532-FS		PRS04-050-3-1064-FS		5.0
PRS04-100-3-355-FS		PRS04-100-3-532-FS		PRS04-100-3-1064-FS		10.0
PRS04-125-3-355-FS	R<0.25% @ 355nm on Legs	PRS04-125-3-532-FS	R<0.25% @ 532nm on Legs	PRS04-125-3-1064-FS	R<0.25% @ 1064nm on Legs	12.5
PRS04-150-3-355-FS		PRS04-150-3-532-FS		PRS04-150-3-1064-FS		15.0
PRS04-200-3-355-FS		PRS04-200-3-532-FS		PRS04-200-3-1064-FS		20.0
PRS04-250-3-355-FS		PRS04-250-3-532-FS		PRS04-250-3-1064-FS		25.0



Penta Prism

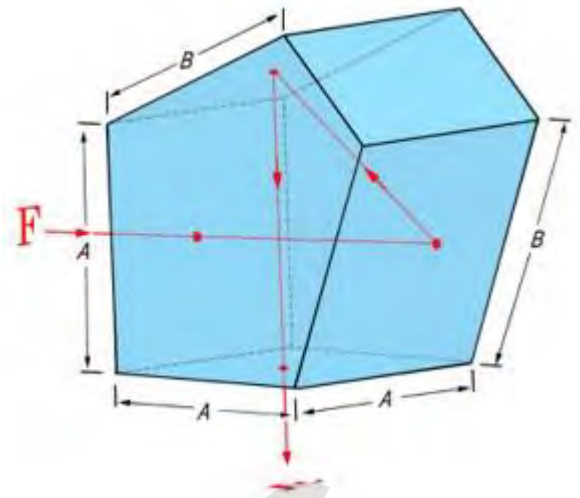
Material: H-K9L

Size Tolerance: +0.0/-0.2mm

Surface Figure: $\lambda/10@632.8\text{nm}$

Surface Quality: 40-20

Chamfer: $<0.25\text{mm} \times 45^\circ$



Part no	A (mm)	B(mm)	Beam Angle
PRS14-050-54R5	5.0	5.45	$90^\circ \pm 3''$
PRS11-050-54R5	5.0	5.45	$90^\circ \pm 30''$
PRS11-100-108	10.0	10.82	$90^\circ \pm 30''$
PRS11-200-216	20.0	21.65	$90^\circ \pm 30''$
PRS11-300-325	30.0	32.47	$90^\circ \pm 30''$
PRS11-400-433	40.0	43.30	$90^\circ \pm 30''$



Roof Prism

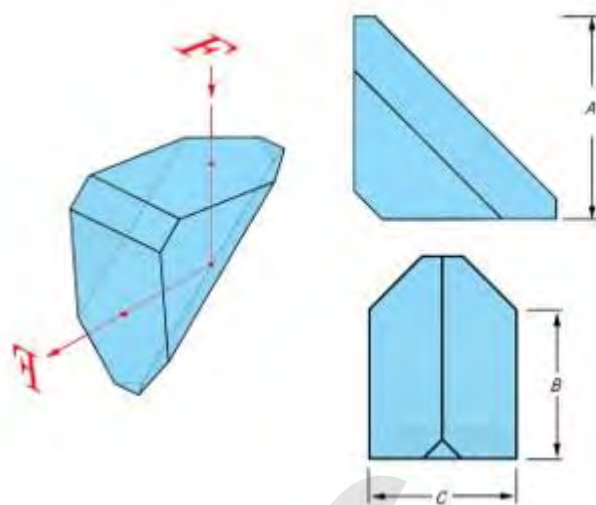
Material: H-K9L

Size Tolerance: +0.0/-0.1mm

Surface Figure: $\lambda/10@632.8\text{nm}$

Angle Tolerance: +/-3 sec.

Chamfer: <0.25mmx45°



Part no	Aperture Diameter	A (mm)	B (mm)	C (mm)
PRS2137-100-100	9.0	13.7	10.0	10.0
PRS2206-150-150	14.0	20.55	15.0	15.0
PRS2274-200-200	19.0	27.4	20.0	20.0
PRS2411-300-300	29.0	41.1	30.0	30.0



Dove Prism

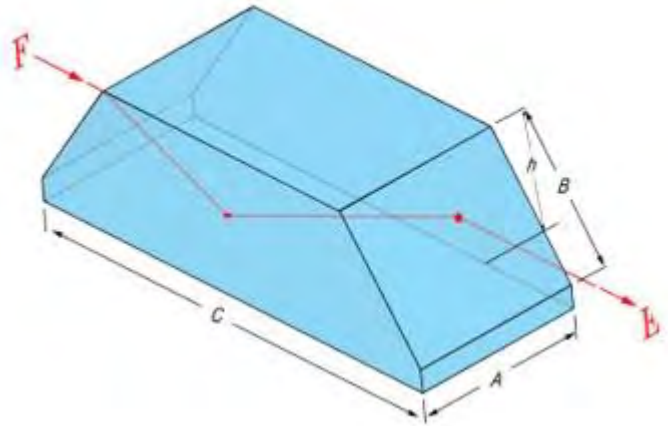
Material: H-K9L

Size Tolerance: +0.0/-0.2mm

Surface Figure: $\lambda/4@632.8\text{nm}$

Angle Tolerance: +/-3 min.

Chamfer: <0.25mmx45°



Part no	A (mm)	B (mm)	C (mm)	H (mm)
PRS5050-071-211-05	5.0	7.1	21.1	5.0
PRS5100-141-423-10	10.0	14.1	42.3	10.0
PRS5150-212-634-15	15.0	21.2	63.4	15.0
PRS5200-283-800-20	20.0	28.3	80.0	20.0



Equilateral Prisms

Material: H-K9L

Size Tolerance: +0.0/-0.2mm

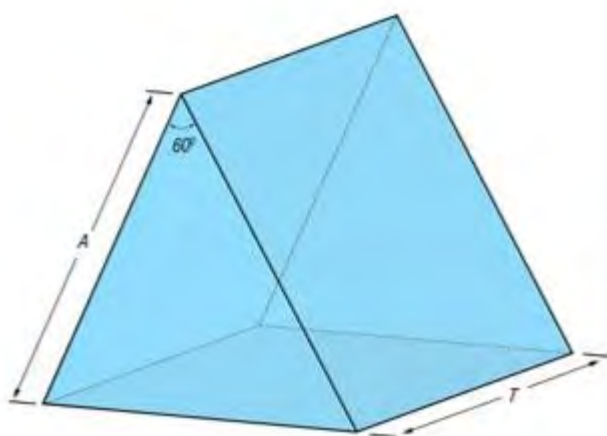
Surface Quality: 60/40

Aperture: 90%

Angle Tolerance: $60^{\circ} \pm 3'$

Surface Figure: $\lambda/4 @ 632.8\text{nm}$

Chamfer: $<0.5\text{mm} \times 45^{\circ}$



Part no	A (mm)	T (mm)	Material
PRS6127-127	12.7	12.7	K9
PRS6254-254	25.4	25.4	K9
PRS6127-127	12.7	12.7	K9
PRS6254-254-ZF13	25.4	25.4	ZF13
PRS6127-127-ZF13	12.7	12.7	ZF13
PRS6254-254	25.4	25.4	K9



Rhomboid Prisms

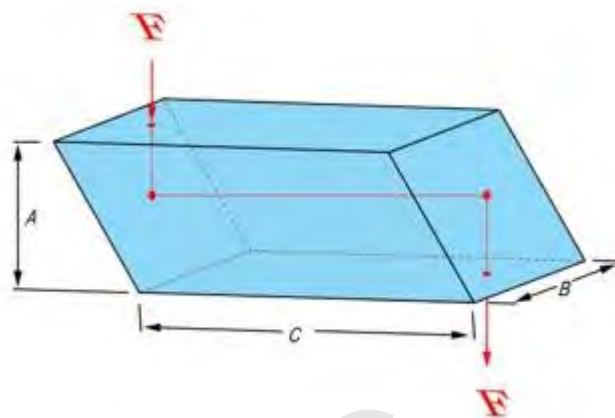
Material: H-K9L

Size Tolerance: $\pm 0.2\text{mm}$

Surface Quality: 60/40

Aperture: 90%

Surface Figure: $\lambda/10@632.8\text{nm}$



Part no	A (mm)	B (mm)	C (mm)	Precision
PRS7035-050-071	3.5	5.0	7.1	<30"
PRS7050-050-071	5.0	5.0	7.1	<30"
PRS7071-100-141	7.1	10.0	14.1	<30"
PRS7090-127-180	9.0	12.7	18.0	<30"
PRS7100-100-141	10.0	10.0	14.1	<30"
PRS7127-127-180	12.7	12.7	18.0	<30"
PRS7141-200-283	14.1	20.0	28.3	<30"
PRS7180-254-359	18.0	25.4	35.9	<30"
PRS7200-200-283	20.0	20.0	28.3	<30"
PRS7254-254-359	25.4	25.4	35.9	<30

