

NO.	Part Name	Material	Size(mm)	Size Tolerance	Angle	Angle Tolerance	Flatness	Feature Points				Coating			
								Air Gap(um)	8	Gap Tolerance	±1.5				
1	Gap Prism	H-ZBAF16	16.26×29	±0.05	45°,45°	±3'		Air Gap(um)	8	Gap Tolerance	±1.5	AOI=27-38° Rabs<1% @ 420-680nm AOI=39-49° Rabs<2% @ 420-680nm			
		H-K9L	11.38×19	±0.05	27°,77.25°	±3'									
2	Optical Fiber Prism	H-K9L	4.88×4.41×1.07	±0.02, ±0.05	45°	±12'	POWER<1/2λ	Coating Boundary(mm)	<0.2			AR Coating: R<0.2% @ 1310±660nm			
3	Wedge Prism	N-SF57HT	4.95×3.685×0.318	±0.05, ±0.01	2.6°	±30"	POWER<1λ					Matching layer coating to n=1.5 Vallyry 550±20 nm			
4	Prism	N-SF57	1.815×5	±0.02, +0/-0.03	47.1°,34.9°	±1'	POWER<1λ					Wavelength: 450±10nm; 520±10nm; 638±10nm			
5	High Precision Monomer Prism	H-ZF5	4.9×4.9×5.4	+0/-0.06	90°,45°	±3'	PV<1/10λ					regular reflection: AOI=±15° 400nm-700nm Rmax≤0.5%			
6	PCS Prism	B270	5.1×5.6×0.41	±0.02, ±0.05	45°	±10'		Parallelism		<10'		AOI= 0° TPave>94% @ 420-660nm			
												RSave>94% @ 420-660nm			
												AOI=-5° TPave>92% @ 420-660nm			
												RSave>90% @ 420-660nm			
												AOI=+5° TPave>93% @ 420-660nm			
RSave>91% @ 420-660nm															
Wavelength: 450±10mm; 520±10nm; 638±10mm															
7	PBS Prism	N-SF57	3×3×6	±0.025, ±0.05	45°	±1'	POWER<1λ					Incident Angle(in the air)	TS,RS		
												(1) S Polarization	0±8°(P Plane) 0±15°(S Plane)		
												(2) P Polarization	0±3°(P Plane) 0±25°(S Plane)	TP>90%(0±10°,S Plane) TP>85%(10-20°,S Plane) TP>80%(20-25°,S Plane) TP>90%(0±3°,P Plane)	
8	X Prism	N-BK7	30×30×37.8	+0/-0.03	180°	±5"	POWER<1λ						Incidence angle	specification	
													Anti-reflective coating	0°	Ravg<0.5% at 420-680nm
														45°	Ts=50% at 505±6nm
													Blue reflectance	45° ±10°	Rs(ave)>93% at 420-475nm Rs(ave)<2% at 530-680nm
														45° -10°	Ts(ave)>90% at 520-560nm
													Green transmittance	45°	Ts(ave)>90% at 520-560nm
														45° +10°	Ts(ave)>90% at 530-550nm
														45° -10°	Rs(ave)>95% at 630-680nm Rs(ave)>85% at 620-630nm Rs(ave)<2% at 430-540nm
													Red reflectance	45°	Ts=50% at 585±6nm Rs(ave)>95% at 605-680nm Rs(ave)>85% at 595-650nm Rs(ave)<2% at 430-540nm
														45° +10°	Rs(ave)>95% at 590-680nm Rs(ave)<2% at 430-540nm