

## **Pellin-Broca Prisms**

#### **Product Description:**

A pellin-broca prism consists of two dispersing prisms joined by a right angle prism indicated in the figure 1. A light beam enters the prisms via surface S1, undergoes total internal reflection from S2 surface and exits via surface S3. The prism is designed in a way that one particular wavelength is deviated by  $90^{\circ}$ . As the prism is rotated, the selected wavelength which is deviated by  $90^{\circ}$  is changed without changing the geometry or relative positions of the input and output beams.

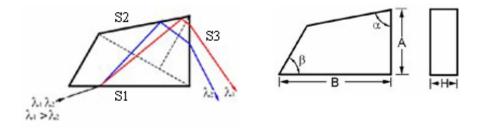
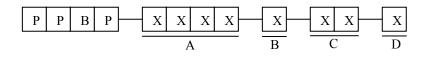


Figure 1: Schematic drawings of a pellin-broca prism

#### **Specifications:**

Material	BK7 or Fused Silica	
Design Wavelength	546.1nm	
Dimension Tolerance	0.0, -0.2mm	
α	79.5°	
β	60°	
Angular Tolerance $(\alpha, \beta)$	< 20 arc minutes	
Flatness	λ /4 @ 632.8nm	
Clear Aperture	> 85%	
Surface Quality	20~10	
Coating	Specified by customer	

### **Ordering Information:**



		546=0546nm	
Α	Wavelength	1310=1310nm	
		XXXX=Your application wavelength	
В	Material	1=BK7	
		2=Fused Silica	
		0=Special	
С	Size	01=11.0X20.0X6.4	
		Check standard size table for standard size	
		00=Custom size	
D	Coating	1=yes	
		0=no	

# Standard Size Table (Material: BK7 Grade A Optical Glass or UV Grade Fused Silica)

Dimension	А	В	Н
P/N	(mm)	(mm)	(mm)
01	11.0	20.0	6.4
02	23.5	40.0	12.7
03	36.0	60.0	25.4