



## Collimating Polarizer

I&Optics' collimating polarizer involves a dichroic polarizer in it and so it can polarize any light into one or two linear polarization portions. The long working distance is attributed to the collimating output beam. It features high extinction ratio and high power handling capability. It can be used in lasers, industry, sensors, testing systems and R&D.

### Specification

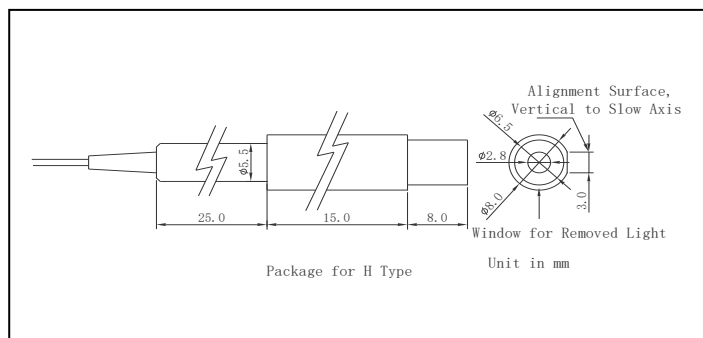
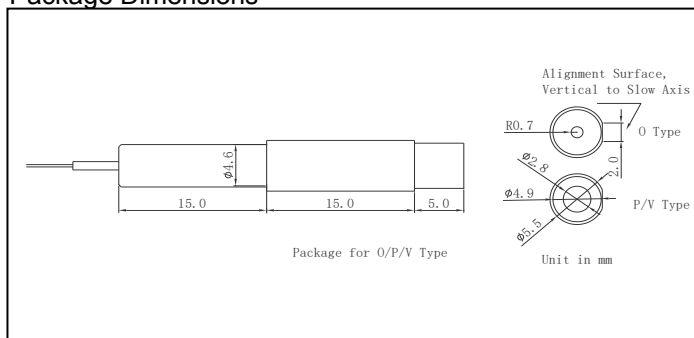
Parameter	Test Condition	Unit	Value			
			O-Type	P-Type	V-Type	H-Type
Model Type	-	-	O-Type	P-Type	V-Type	H-Type
Nominal Center Wavelength	-	nm	633, 850 , 980 , 1060 , 1310 , 1550 , 2000 or Specify			
Wavelength Range	-	nm	+/-20 for 633/850/ 980/1060nm, others +/-50			+/-30
Min. Transmission Ratio	at Center Wavelength (Proper SOP)	%	93, Typ. 95 for 2000nm, others 95, Typ. 97			
Nominal Beam Diameter	at Beam Waist (1/e <sup>2</sup> )	mm	0.4 (Working Distance 50~150mm, Specify upon Request)			
Polarization Relation of Beams	-	-	Single	Parallel	Vertical	Single
Min. Extinction Ratio	at 25°C, Input to Output	dB	40			35
Min. Return Loss	at Center Wavelength	dB	55	55	55	50
Max. Power Handling Rate*	Continuous Wave	W	0.3			1, 3, 5, 10 or Specify
Fiber Type	-	-	SM or PM Panda Fiber or Specify			
Max. Fiber Tensile Load	-	N	5			
Operating Temperature	-	°C	-5 to 70			0 to 50
Storage Temperature	-	°C	-40 to 85			-10 to 70

\*It is dependent on the input state of polarization ( SOP ) due to probable absorption or scattering. Proper input SOP results in higher handling power. Special applications please call.

Above values are for device without connectors. For device with connector, IL will be 0.3dB higher (0.5dB for 633/850nm), return loss will 5dB lower and handling power is only 1W.

The default alignment of working polarization and connector key are aligned to slow axis of fiber.

### Package Dimensions



### Ordering Informations

CP-①-②-③-④-⑤-⑥-⑦

① - Center Wavelength

63 - 633nm

85 - 850nm

98 - 980nm

06 - 1060nm

31 - 1310nm

55 - 1550nm

20 - 2000nm

SS - Specify

② - Model Type

O - O Type

P - P Type

V - V Type

H - H Type

③ - Power Rate

L - 0.3W

1 - 1W

10 - 10W

④ - Fiber Type

1 - SM 650 Fiber

2 - PM 630 Panda Fiber

3 - Hi 780 Fiber

4 - PM 850 Panda Fiber

5 - Hi 1060 Fiber

6 - PM 980 Panda Fiber

7 - SMF-28e Fiber

8 - PM 1310 Panda Fiber

9 - PM 1550 Panda Fiber

⑤ - Connector Type

1 - FC/SPC

2 - FC/APC

3 - SC/SPC

4 - SC/APC

⑥ - Fiber Jacket

B - Bare Fiber

L - 900um Loose Tube

⑦ - Fiber Length

0.8 - 0.8m