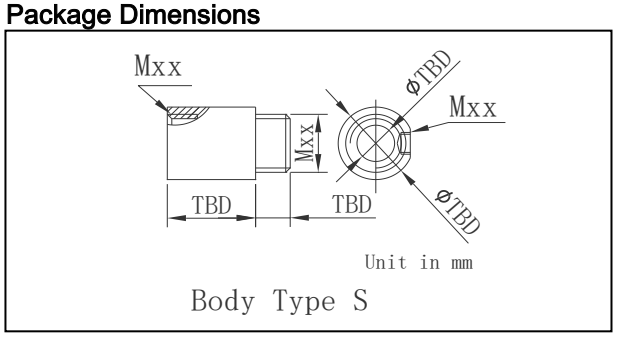
Free Space Phase Retarder

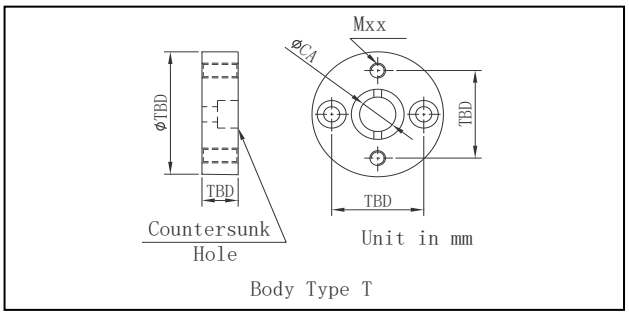
I&Optics' free space phase retarder can change the state of polarization of input beam by offering a speicified phase retardation between two orthogonal portions. It features very high transmission ratio, large clear aperture, extremely low light deviation. It can be used in lasers, sensors, demonstration, testing systems and R&D.

Specification

Parameter	Test Condition	Unit	Value
Nominal Center Wavelength	-	nm	633, 850 , 980 , 1060 , 1310 , 1550 , 2000 or Specify
Wavelength Range	-	nm	+/-10 for 633/850nm, +/-15 for 980/1060nm, others +/-20
Min. Transmission Ratio	at Center Wavelength	%	98, Typ. 99
Max. Beam Deviation Angle	-	o	0.001
Nominal Retardation	at Center Wavelength	-	λ/4, λ/2 or Specify
Max. Retardation Tolerance	between Input and Ouput	-	λ/300
Min. Clear Aperture	-	mm	Dia. 2.8, 5.0, 10.0, 15.0, 20.0 or Specify
Max. Power Handling Rate	Continuous Wave	mW	1000 or Specify
Operating Temperature	-	℃	-5 to 70
Storage Temperature	-	℃	-40 to 85

Package Dimensions





Dimensions depends on user's application and actual requirements. We are very pleased to do our best to provide customized package for optimizing. Detailed informations please contact us.

Ordering Informations

FSPH-①-②-③-④-⑤

① - Center Wavelength
63 - 633nm
85 - 850nm
98 - 980nm
06 - 1060nm
31 - 1310nm
55 - 1550nm
20 - 2000nm
SS - Specify

② - Retardation
Q - λ/4
H - λ/2

③ - Power Rate
01 - 1W
05 - 5W
10 - 10W
1H - 100W

④ - Interface Type on I/O Port
5 - M5 for Type S
9 - M9 for Type S
13 - M13 for Type S
20 - M20 for Type S
32 - M32 for Type S
N - Pacakge for Type T

⑤ - Clear Aperture
2.8 - 2.8mm
5.0 - 5.0mm
10 - 10.0mm
15 - 15.0mm
20 - 20.0mm