



Free Space Faraday Isolator

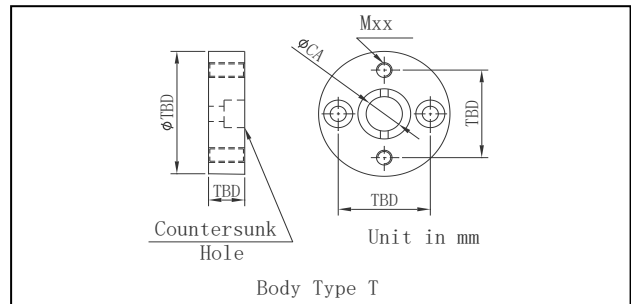
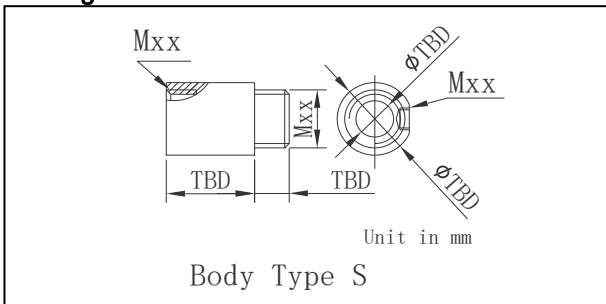
I&Optics' free space Faraday Isolator can transmit the forward light with high transmission ratio and dissipate the reversed light due to the nonreciprocal Faraday effect. It features very high transmission ratio, large clear aperture, high isolation and very low light deviation. It can be used in lasers, sensors, demonstration, testing systems and R&D.

Specification

Parameter	Test Condition	Unit	Value	
Isolator Type	-	-	Standard	
Polarization Property	-	-	Insensitive	Sensitive
Nominal Center Wavelength	-	nm	980 or Specify	
Wavelength Range	-	nm	+/-15	
Min. Transmission Ratio	at Center Wavelength	%	95, Typ. 97	90, Typ. 93
Min. Isolation	at 23°C	dB	26, Typ. 32	
Min. Extinction Ratio	at Center Wavelength	dB	20, Typ. 22	25, Typ. 30
Polarization Dependent Loss	at Center Wavelength	dB	Max. 0.2, Typ. 0.1	Min. 25, Typ. 30
Max. Beam Deviation Angle	-	mrad	5	
Max. M ² Degradation	-	%	10.0	
Min. Clear Aperture	-	mm	Dia. 1.0, 1.2, 1.5 or Specify	Dia. 2.0, 2.8, 4.8 or Specify
Max. Power Handling Rate	Continuous Wave	W	0.3, 1, 5, 10, 20 or Specify	
Operating Temperature	-	°C	-5 to 50	
Storage Temperature	-	°C	-40 to 85	

Above specifications are for device without protecting windows for pollution and escape windows for reversed light. Both windows are available upon request.

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

FSI-①-②-③-④-⑤

① - Center Wavelength
98 - 980nm
SS - Specify

② - Polarization Type
I - Insensitive
S - Sensitive

③ - Power Rate
0T - 0.3W
01 - 1W
05 - 5W
10 - 10W
20 - 20W

④ - Interface Type on I/O Port
05 - M5 for Type S
09 - 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
09 - 0.9mm
12 - 1.2mm
15 - 1.5mm
20 - 2.0mm
28 - 2.8mm
48 - 4.8mm