

Polarization Independent Isolator Core IC Series

Rev 11

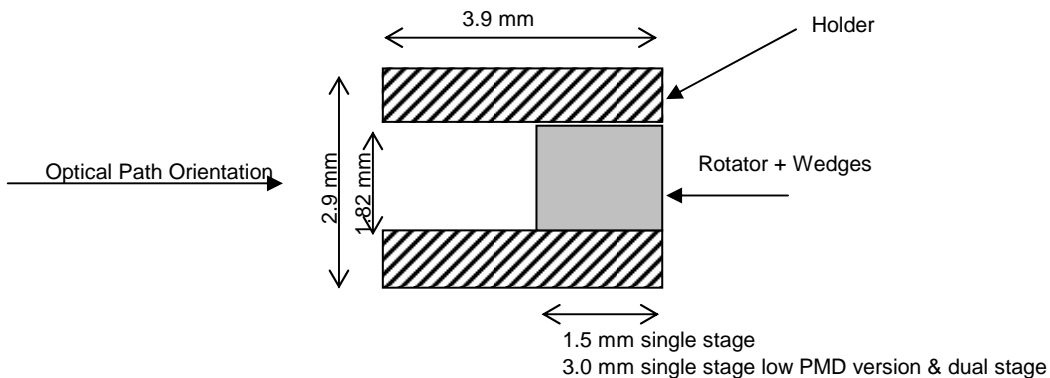
The Polarization Insensitive Isolator Core is a Faraday Rotator based component for in-line fiber optic isolator. It can also integrate with other components to block back reflection or to enhance device isolation. It is insensitive to the input beams polarization state and has high isolation, low insertion loss, low PDL and low PMD.

Specifications

Parameter	Unit	Single Stage	Dual Stage	Single Stage	Dual Stage
Center Wavelength (λ_c)	nm	1310 or 1550		1064	
Typ. Peak Isolation	dB	42	52	38	52
Min. Isolation, $\lambda_c \pm 10\text{nm}$, 23 °C	dB	30	40	25	40
Max. Insertion Loss, 23 °C	dB	0.12/0.15 ¹	0.25	1	2
Max. Polarization Dependent Loss, 23 °C	dB	0.05	0.05	0.05	0.05
Max. Polarization Mode Dispersion	ps	0.2/0.05 ¹	0.05	----	----
Max. Optical Power (Continuous Wave)	mW	300			
Operating Temperature	°C	-5 to +70			
Storage Temperature	°C	-40 to +85			

¹ For PMD Compensated Version

Package Dimensions



Ordering Information

IC-①-②②-③-④

①: Stage	②②: Wavelength	③: PMD Requirement	④: Optical Path Orientation
1 - Single stage	31 - 1310 nm	1 - 0.05 ps max.	F - Forward (as indicated above)
2 - Dual stage	55 - 1550 nm	2 - Refer to above spec.	B - Backward
	06 - 1060 nm		
	SS - Specify		