

PRODUCT INFORMATION SHEET

Mini Polarization Insensitive Isolator (MPI Series)

The Mini Polarization Insensitive Isolator series is characterized with very compact package, low insertion loss, high isolation, high return loss and excellent environmental stability and reliability. It is specifically designed to help the system and subsystem engineers to deal with the ever demanding space and density requirement.

Specifications

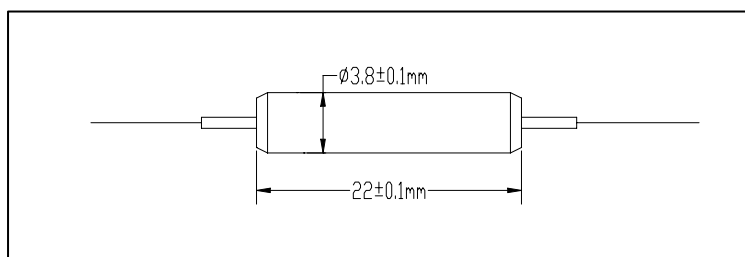
Parameters	Unit	Single Stage		Dual Stage	
		Grade P	Grade A	Grade P	Grade A
Center Wavelength (λ_c)	nm	1310, 1480 or 1550			
Typ. Peak Isolation	dB	42	40	58	55
Min. Isolation at 23°C; $\lambda_c \pm 15\text{nm}$, all polarization states	dB	32	30	46	45
Typ. Insertion Loss at 23°C; $\lambda_c \pm 20\text{nm}$, all polarization states	dB	0.35	0.5	0.45	0.6
Max. Insertion Loss at -5°C-70°C; $\lambda_c \pm 20\text{nm}$, all polarization states	dB	0.5	0.7	0.55	0.9
Min. Return Loss (input/output)	dB	60 / 55	60 / 55	60/55	60/55
Max. PDL, 23°C	dB	0.05	0.1	0.1	0.15
Max. PMD	ps	0.2 ¹	0.25 ¹	0.05	0.07
Max. Optical Power	mW	300			
Max. Tensile Load	N	5			
Fiber Type		SMF-28 Fiber			
Operating Temperature	°C	-5 to +70			
Storage Temperature	°C	-40 to +85			

¹ Low PMD version is available. PMD<0.05ps

*Above specifications are for device without connector

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower.

Package Dimensions



Ordering Information

MPI-①-②-③-④-⑤-⑥-⑦

- | | | | | |
|---|---|---|--|---|
| ① Stage
1-Single Stage
2-Dual Stage | ② Wavelength
31 - 1310nm
48 - 1480nm
55 - 1550nm
SS - Specify | ③ Grade
P - Premium grade
A - A grade | ④ PMD
1 - 0.05ps max
2 - Refer to above spec | ⑤ Connector Type
N - None
S - Specify |
| | | ⑥ Fiber Type
B - 250um bare fiber
L - 900um loose tube
T - 900um tight buffer fiber
S - Specify | ⑦ Fiber Length
1 - 1.0 m
S - Specify | |