



Polarization Maintaining Isolator For Pulse Application (PMI Series)

Spec Review No.: SR6197C Date: June 03, 2019

The Polarization Maintaining Isolator is characterized with low insertion loss, high isolation, high return loss, high extinction ratio and excellent environmental stability and reliability. It is ideal for polarization maintaining fiber amplifiers, fiber lasers, high speed communication systems and instrumentation applications.

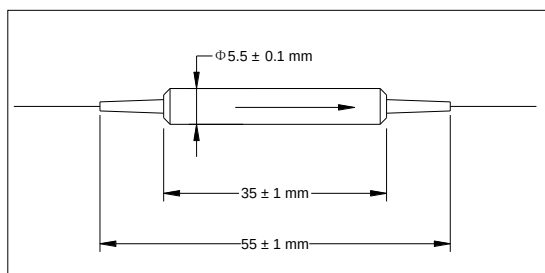
Specifications

Parameter	Unit	Single Stage		Dual Stage	
		Grade P	Grade A	Grade P	Grade A
Center Wavelength (λ_c)	nm	1310, 1480 or 1550			
Min. Extinction Ratio	dB	20	18	20	18
Typ. Peak Isolation	dB	42	40	58	55
Min. Isolation, $\lambda_c \pm 10$ nm, 23 °C, all polarization states	dB	30	28	46	45
Typ. Insertion Loss, $\lambda_c \pm 20$ nm, 23 °C, all polarization states	dB	0.4	0.5	0.5	0.7
Max. Insertion Loss, $\lambda_c \pm 20$ nm, all temperature, all polarization states	dB	0.6	0.7	0.7	0.9
Min. Return Loss (Input/Output)	dB	55/50	55/50	55/50	55/50
Max. Average Optical Power	W	0.3, 3, 5, 10			
Max. Peak Power for ns pulse	kW	10			
Max. Tensile Load	N	5			
Fiber Type		PM Panda fiber or specify			
Operating Temperature	°C	-5 to +70			
Storage Temperature	°C	-40 to +85			

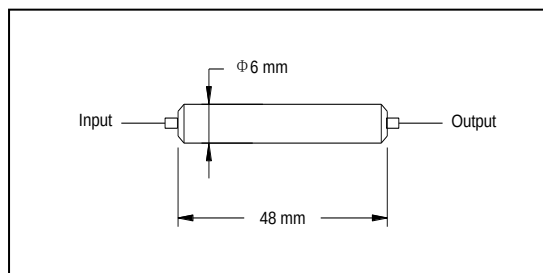
*IL is 0.3 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

*The Optical Power is 1W only for connector added.

Package Dimensions



Package for the power ≤ 5 W



Package for the power 6 W - 10 W

Ordering Information

PMI-①-②②-③-④-⑤-⑥-⑦-P

①: Stage

1 - Single stage

2 - Dual stage

③: Grade

P - Premium

A - A grade

④: Connector Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

PMI-①-②②-③-④-⑤-⑥-⑦-C

⑤: Fiber Type

B - 250 μ m bare fiber

L - 900 μ m loose tube

S - Specify

⑥: Fiber Length

Q - 0.75 m

S - Specify

②②: Wavelength

31 - 1310 nm

48 - 1480 nm

55 - 1550 nm

⑦: Working Axis

F - Fast axis blocked

B - Both axes working