



Polarization Maintaining Isolator WDM Hybrid

I&Optics' polarization maintaining isolator WDM can multiplex two different wavelengths into one same output port with very low loss and block the backward light with the integrated isolator. It features low insertion loss, high extinction ratio, high wavelength isolation and flat band property. It can be used in lasers, telecom, EDFA, sensors, instruments, testing systems and R&D.

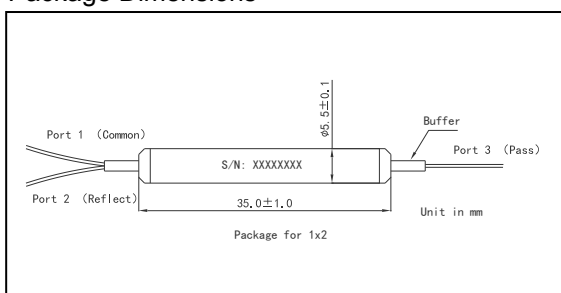
Specification

| Parameter | Test Condition | Unit | Value | |
|-----------------------------|-------------------------------------------------------|------|------------------------------------------------------------------|----------------|
| Isolator Stage Number | - | - | Single | Dual |
| Pass Band Wavelength(PW) | Port 1 to 3 or Port 3 to 1 | nm | 1064+/-10 or Specify | |
| Reflect Band Wavelength(RW) | Port 2 to Port 1 | nm | 980+/-15 | |
| Max. Pass Band IL | Port 1 to 3 or Port 3 to 1 | dB | 2.2, Typ. 1.8 | 3.4, Typ. 3.0 |
| Max. Reflect Band IL | Port 1 to Port 2, Port 3 to Port 4 | dB | 0.6, Typ. 0.45 | 0.6, Typ. 0.45 |
| Min. Extinction Ratio | at 23°C, only for PM Fiber Port, at Slow or Fast Axis | dB | 21, Typ. 23 (Both Axes Working), 25, Typ. 28 (Fast Axis Blocked) | |
| Min. Pass Isolation | Port 1 to Port 3, RW | dB | 25, Typ. 30 | |
| Min. Reflect Isolation | Port 1 to 2, PW | dB | 13 | |
| Min. Reversed Isolation | at 23°C, Port 1 to 3 or Port 3 to 1 | dB | 30 | 50 |
| Min. Directivity | Port 3 to Port 2 | dB | 50 | |
| Min. Return Loss | - | dB | 50 | |
| Max. Power Handling Rate | Continuous Wave, Total Power | mW | 200 or Specify | |
| Fiber Type | - | - | PM 980 Panda Fiber on Port 3 or Specify | |
| Max. Fiber Tensile Load | - | N | 5 | |
| Operating Temperature | - | °C | -5 to 50 | |
| Storage Temperature | - | °C | -40 to 85 | |

Above values are for device without connectors. For device with connectors, IL will be 0.3dB higher, ER will be 2dB lower, and return loss will 5dB lower.

The default alignment of working polarization and connector key is to slow axis of fiber. Special requirement please call.

Package Dimensions



The optical path of forward pump type for pass wavelength is from port 3 to port 1, same direction as reflect wavelength (pump light).

The optical path of backward pump type for pass wavelength is from port 1 to port 3, opposite direction against reflect wavelength (pump light)

Ordering Informations

PMIWDM-①-②-③-④-⑤-⑥-⑦-⑧

① - Pass / Reflect Wavelength

0698 - 1064nm Pass/980nm Reflect

② - Isolator Type

S - Single Stage

D - Dual Stages

③ - Pump Type

F - Forward Pump

B - Backward Pump

④ - Working Axis of PM Fiber

F - Fast Axis Blocked

B - Both Axes Working

⑤ - Fiber on Port 1/2

1 - HI 1060 Fiber

2 - PM 980 Panda Fiber

⑥ - Connector on port 1/2/3

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

⑦ - Fiber Jacket on Port 1/2/3

B - Bare Fiber

L - 900um Loose Tube

⑧ - Fiber Length

0.8 - 0.8m