



# 1064nm High Power PM Optical Isolator

## FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability
- Low Profile Packaging

## APPLICATIONS

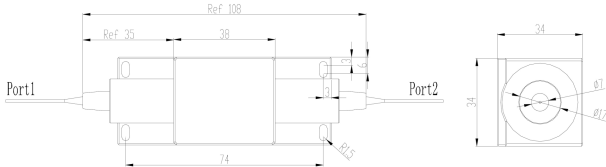
- Fiber Optic Amplifiers
- Fiber Optic Instruments
- WDM Systems
- Transmitters and Fiber Lasers
- CATV Networks

## SPECIFICATIONS

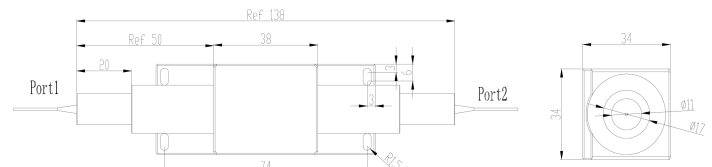
| Parameter                                    | Unit   | High Power Type                          |
|--|--------|--|
| Center Wavelength ( $\lambda_c$ )            | nm     | 1064                                     |
| Operating Wavelength Range                   | nm     | +/-10                                    |
| Peak Isolation (Typ.)                        | dB     | 28                                       |
| Min. Isolation (23°C)                        | dB     | 22                                       |
| Typical Insertion Loss ( $\lambda_c$ , 23°C) | dB     | 0.8                                      |
| Max. Insertion Loss ( $\lambda_c$ , 23°C)    | dB     | 1.2                                      |
| Optical Return Loss (Input/Output)           | dB     | 50/50                                    |
| Extinction Ratio @ 23°C (Min.)               | dB     | 20                                       |
| Working Mode                                 | S Type | Can only work in Slow Axis               |
|  | F Type | Can work both in Slow Axis and Fast Axis |
| Fiber Type                                   | -      | PM980 Panda Fiber or 10/125um PM Fiber   |
| Fiber Tensile Load                           | N      | 5  |
| Maximum Optical Power (CW)                   | W      | 1, 2, 3, 5, 10, 15, 20                   |
| Operating Temperature                        | °C     | 0~50                                     |
| Storage Temperature                          | °C     | -20~75                                   |

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.5dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
  - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
  - Devices for higher optical power or with other type fiber or consigned fiber are also available.

## PACKAGE DIMENSION



1~10W Average Power Package



>10W Average Power Package

## ORDERING INFORMATION

|                          |                        |                          |   |                                     |                               |   |           |                 |
|--------------------------|------------------------|--------------------------|---|-------------------------------------|-------------------------------|---|-----------|-----------------|
| <b>FPIS-</b>             | <b>NNNN</b>            | <b>- C</b>               | <b>HP</b>   | <b>NN</b>                           | <b>- C</b>                    | <b>C</b>  | <b>NN</b> | <b>- CC/CCC</b> |
| <b>Center Wavelength</b> | <b>Type</b>            | <b>Optical Power</b>     | <b>Fiber Type</b>   | <b>Fiber Sleeve</b>                 | <b>Fiber Length</b>           | <b>Connector Type</b>   |           |                 |
| 1064=1064nm              | S= S Type<br>F= F Type | 3=3W<br>10=10W<br>20=20W | 2= PM980 Panda Fiber<br>E=10/125 PM Fiber<br>O=10/125PMDC Fiber | L= 900um Loose Tube<br>3= 3mm Cable | 10=1.0m<br>15=1.5m<br>20=2.0m | N =Without Connector<br>FC/APC=FC/APC Connector<br>LC/PC =LC/PC Connector |           |                 |