

680nm PM Optical Isolator

680nm PM Optical Isolator is a fiber passive component built with TGG crystal, it allows light signal to be delivered in one forward direction and avoid the back reflection light, it's widely used in amplifier system, fiber optic sensor system to protect the light source and lower down the system optical signal noise. The high power type is available upon request.

Application:

Quantum Communication
Fiber Laser
Coherent Detecting
Fiber Optic Amplifier

Features:

High Isolation
Low PDL
Low Insertion Loss
High Reliability



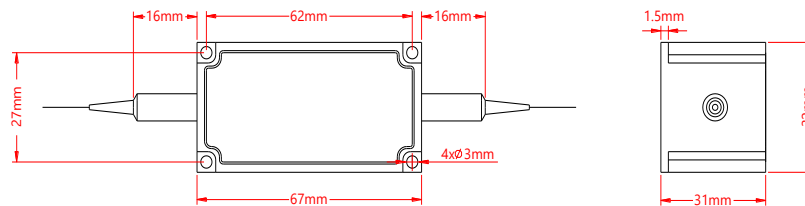
Specification:

| Parameter | Symbol | Value | Unit |
|-------------------------|-----------|-----------------------|--------------------|
| Center Wavelength | λ | 680 | nm |
| Bandwidth | BW | ± 5 | nm |
| Typ. Insertion Loss | IL | 0.8 | dB |
| Max. Insertion Loss | IL | 1.2 | dB |
| Typ. Peak Isolation | Iso | 25 | dB |
| Min. Isolation | Iso | 22 | dB |
| Min. Extinction Ratio | ER | 18 | dB |
| Min. Return Loss | RL | 45 | dB |
| Max. Optical Power (CW) | P | 300 or customized | mW |
| Max. Tensile Load | | 5 | N |
| Fiber Type | | Nufern PM630-HP fiber | - |
| Operating Temperature | T | +10~50 | $^{\circ}\text{C}$ |
| Storage Temperature | T | 0~60 | $^{\circ}\text{C}$ |
| Package Dimension | | | mm |

Notice: Above specifications are tested at center wavelength without connector in room temperature @23 $^{\circ}\text{C}$.

For devices with connectors, IL will be 0.3dB higher, ER will be 2dB lower, RL will be 5dB lower.

Drawing:



Ordering Information (Part Number):

PMISO-**WWW**-**A**-**J**-**LL**-**CC**

| WWW | A | J | LL | CC |
|---------------|--|----------------------|--------------|--------------|
| Wavelength | Working Axis | Fiber Jacket | Fiber Length | Connector |
| 633 - 633nm | F - Fast Axis Blocked Slow Axis Working | B - 250um Bare Fiber | 05 - 0.5m | NE - None |
| 635 - 635nm | | 9 - 900um Loose Tube | 10 - 1.0m | FA - FC/APC |
| 640 - 640nm | B - Both Axes Working | | 15 - 1.5m | FU - FC/UPC |
| 650 - 650nm | | | 20 - 2.0m | SA - SC/APC |
| 680 - 680nm | | | SS - Specify | SU - SU/APC |
| SSS - Specify | | | | LA - LC/APC |
| | | | | LU - LC/UPC |
| | | | | SS - Specify |