

1625nm RC80 Mini Polarization Insensitive Optical Isolator

1625nm RC80 Mini Polarization Insensitive Optical Isolator is a fiber passive component built with RC80 singlemode fiber, 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 optical signal noise. High power type is available upon request.

Application:

Fiber Optic Amplifier
Fiber Optic Sensor
Fiber Amplifier
Fiber Laser

Features:

Compact Package
High Isolation
Low Insertion Loss
High Reliability



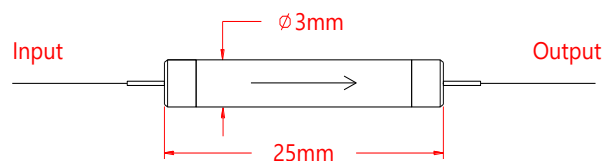
Specification:

| Parameter | Symbol | Value | | Unit |
|-----------------------------------|-----------|-----------------------|------------|------|
| Center Wavelength | λ | 1625 | | nm |
| Bandwidth | BW | ± 15 | | nm |
| Stage | | Single Stage | Dual Stage | - |
| Typ. Insertion Loss | IL | 0.6 | 0.8 | dB |
| Max. Insertion Loss | IL | 0.8 | 1.0 | dB |
| Typ. Peak Isolation | Iso | 40 | 50 | dB |
| Min. Isolation | Iso | 28 | 42 | dB |
| Max. Polarization Dependent Loss | PDL | 0.1 | | dB |
| Max. Polarization Mode Dispersion | PMD | 0.25 | | ps |
| Min. Return Loss | RL | 50 | | dB |
| Max. Optical Power (CW) | P | 500 | | mW |
| Max. Tensile Load | | 5 | | N |
| Fiber Type | | RC80 SMF Fiber | | - |
| Operating Temperature | T | -5~70 | | °C |
| Storage Temperature | T | -40~85 | | °C |
| Package Dimension | | $\Phi 3.0 \times L25$ | | mm |

Notice: Above specifications are tested at center wavelength without connector in room temperature @23°C.

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

Drawing:



Ordering Information (Part Number):

| RPIISO- WWW - S - J - LL - CC | | | | |
|--|------------------|----------------------|--------------|-----------|
| WWW | S | J | LL | CC |
| Wavelength | Stage | Fiber Jacket | Fiber Length | Connector |
| 1310 - 1310nm | S - Single Stage | B - 165um Bare Fiber | 05 - 0.5m | NE - None |
| 1450 - 1450nm | D - Dual Stage | | 10 - 1.0m | |
| 1480 - 1480nm | | | 15 - 1.5m | |
| 1550 - 1550nm | | | 20 - 2.0m | |
| 1590 - 1590nm | | | SS - Specify | |
| 1625 - 1625nm | | | | |