# In-line Polarization Insensitive Isolator

Auxora's in-line polarization insensitive isolator is used to minimize back reflection & scattering in the reverse direction at all stages of polarization, it is a low cost product with excellent performance including low IL, high isolation, high return loss and low PDL & PMD, C band and L band wavelength range is optional.

## *FEATURES*

- Low insertion loss
- High isolation
- Low PDL & PMD
- High stable & reliable
- Epoxy free optical path
- Telcordia GR-1221 and GR1209 compliant

## *APPLICATIONS*

- Fiber optic amplifier
- WDM systems
- Fiber lasers & transmitters
- Fiber optic network links

**SPECIFICATIONS**

| Parameters | Unit | Value | |
|---|---|---|---|
| | | Single Stage | Dual Stage |
| Operating Wavelength Range | nm | 1310±15;1480±15;1528-1564;1570-1605 | |
| Insertion Loss | dB | ≤ 0.45 | ≤ 0.55 |
| Isolation (Over operating wavelength range, Operating temperature range, all SOP) | dB | ≥ 20 | ≥ 38 |
| Polarization Mode Dispersion | ps | ≤ 0.05 | ≤ 0.05 |
| Return Loss (Input & Output) | dB | ≥ 50 | |
| Polarization Dependent Loss | dB | ≤ 0.1 | |
| Maximum Power Handling | mW | 500 | |
| Operating Temperature | °C | 0 ~ 70 | |
| Storage Temperature | °C | -40 ~ 85 | |
| Humidity | -- | 5 ~ 95% | |
| Package Size | mm | Standard: Φ5.5xL34（L40 for 900um loose tube） | |
| | | Mini Size: Φ3.0xL25 | |
| Fiber Type | -- | SMF-28e+ or ITU-T G657.A | |

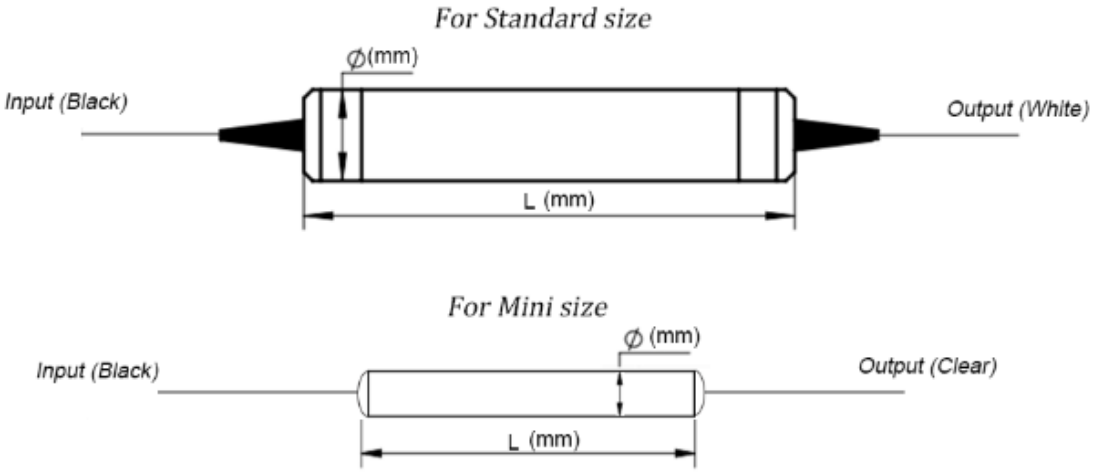
**NOTES:**

1) All specifications are based on the devices without connectors, and guaranteed over wavelength, polarization and temperature.

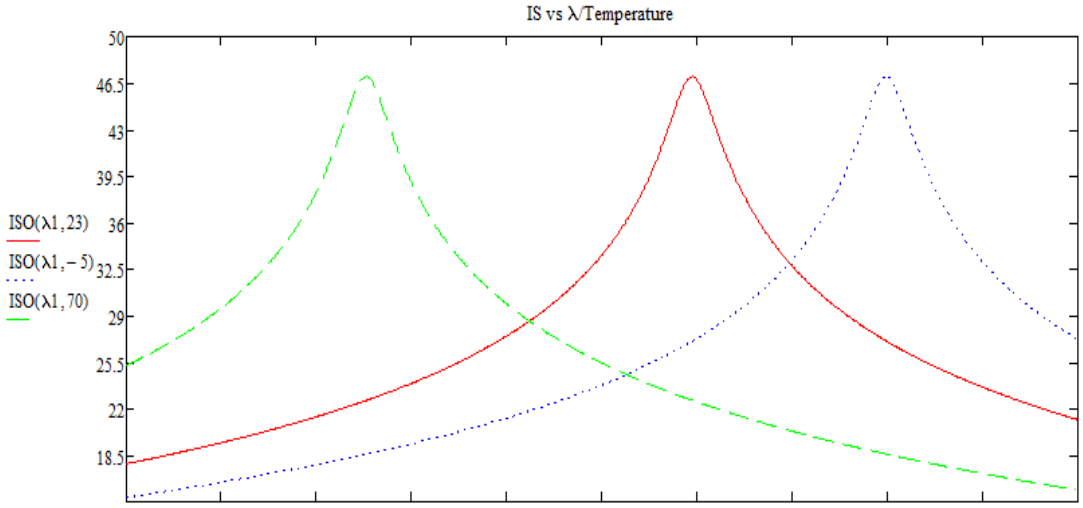
2) PMD and chromatic dispersion values are guaranteed by design.

3) IL is 0.3 dB higher, RL is 5 dB lower for each connector added

## Packing Dimensions(mm)




## TypicalCurve ( Just for reference)




## Ordering Information: (e.g.AID-1155S1060-1010-00)

| AID- | XX | XX | X | X | XX | X | -XX | XX | -X | X |
|---|---|---|---|---|---|---|---|---|---|---|
| | Port Configuration | Wavelength Range | Stage | Package | Fiber Type | Fiber Jacket | Fiber Length | | Connector | |
| | | | | | | | Input | Output | Input | Output |
| | 11=1x1 | 31=1310nm | S=Single Stage | 1=5.5x34 | 06=G657.A1 | 0=250um Bare fiber | 10=1.0m | 10=1.0m | 0=None | 0=None |
| | XX=Customized | 48=1480nm | D=Dual Stage | 2=5.5x40 | 07=G657.A2 | 1=900um loose tube | 15=1.5m | 15=1.5m | 1=FC/PC | 1=FC/PC |
| | | 55=1550nm | | 3=4.0x30 | XX=Customized | X=Customized | X= customized | X= customized | 2=FC/APC | 2=FC/APC |
| | | 59=1590nm | | 4=3.0x25 | | | | | 3=SC/PC | 3=SC/PC |
| | | XX= Customized | | 7=2.5x20 | | | | | 4=SC/APC | 4=SC/APC |
| | | | | X=Customized | | | | | 5=LC/UPC | 5=LC/UPC |
| | | | | | | | | | 6=LC/APC | 6=LC/APC |
| | | | | | | | | | X= customized | X= customized |