

## Isolator Hybrid: WDM + Isolator

(1480/1550, 1480/1590nm)

### Specifications

Contact Hengyan Photonics with your custom specification needs.

| Parameter              |                                      |  |                    |       | Unit | Single Stage        |            | Dual Stage |  |
|------------------------|--------------------------------------|--|--------------------|-------|------|---------------------|------------|------------|--|
| Signal Channel         | Wavelength                           |  |                    |       | nm   | 1550±20, or 1590±20 |            |            |  |
|                        | Isolation (23°C, All SOP)            |  |                    | λc    | Typ. | dB                  | 35         | 50         |  |
|                        |                                      |  |                    | λc±20 | Min  | dB                  | 30         | 44         |  |
|                        | Channel Isolation (λc 23°C, All SOP) |  |                    |       | Min  | dB                  | 30         |            |  |
|                        | Insertion Loss All (SOP)             |  | λc (23°C)          |       | Typ. | dB                  | 0.7        | 0.8        |  |
| λc±20 (-5 to 70°C)     |                                      |  | Max                | dB    | 0.9  | 1.0                 |            |            |  |
| Pump Channel           | Wavelength                           |  |                    |       | nm   | 1480±20             |            |            |  |
|                        | Channel Isolation (λc 23°C, All SOP) |  |                    |       | Min  | dB                  | 14         |            |  |
|                        | Insertion Loss (All SOP)             |  | λc (23°C)          |       | Typ. | dB                  | 0.4        |            |  |
|                        |                                      |  | λc±20 (-5 to 70°C) |       | Max  | dB                  | 0.6        |            |  |
| PDL                    |                                      |  |                    |       | Max  | dB                  | 0.1        |            |  |
| PMD                    |                                      |  |                    |       | Max  | ps                  | 0.10/0.25^ |            |  |
| Return Loss            |                                      |  |                    |       | Min  | dB                  | 55         |            |  |
| Directivity            |                                      |  |                    |       | Min  | dB                  | 50         |            |  |
| Optical Power Handling |                                      |  |                    |       | mW   | 300                 |            |            |  |
| Package Dimension      |                                      |  |                    |       | mm   | Φ5.5 x L35          |            |            |  |
| Operation Temperature  |                                      |  |                    |       | °C   | -5 to 70            |            |            |  |
| Storage Temperature    |                                      |  |                    |       | °C   | -40 to 85           |            |            |  |

\* The above specifications are for parts without connectors. Adding connectors can affect the IL, RL, & PDL.

\* SOP=State of Polarization

^ Max PMD is 0.25 for non-compensated single-stage parts.

### Ordering Information

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| IWDM | Wavelengths    | Stages         | Pump Type       | Fiber Type       | Fiber Length | Connector |
|------|----------------|----------------|-----------------|------------------|--------------|-----------|
| IWDM | 45=1480/1550nm | S=Single Stage | F=Forward Pump  | B=SMF-28, 250um  | 10=1.0m      | NE=None   |
|      | 49=1480/1590nm | D=Dual Stage   | B=Backward Pump | L= SMF-28, 900um | 15=1.5m      | FA=FC/APC |
|      | X=Others       |                |                 | X=Others         | 20=2.0m      | FC=FC/PC  |
|      |                |                |                 |                  | 30=3.0m      | SA=SC/APC |
|      |                |                |                 |                  | X=Others     | SC=SC/PC  |
|      |                |                |                 |                  |              | ST=ST/PC  |
|      |                |                |                 |                  |              | LA=LC/APC |
|      |                |                |                 |                  |              | LC=LC/PC  |
|      |                |                |                 |                  |              | X=Others  |

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**Package Dimensions**

